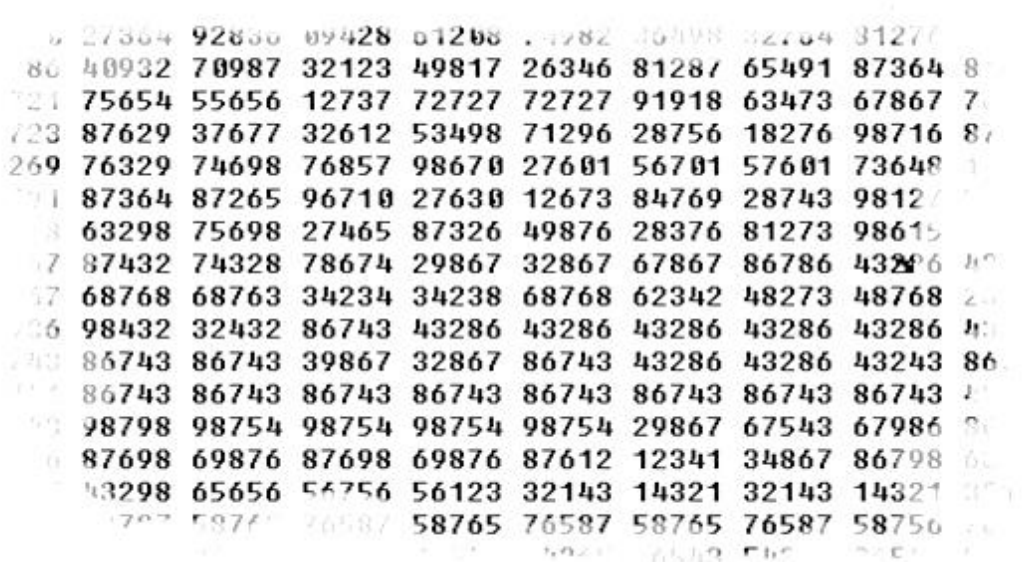

Numbers & Oddities
a.k.a. The Spooks Newsletter

Edition #322, July 2024

Editor: Ary Boender email: udxf@udxf.nl
Numbers & Oddities http://www.numbersoddities.nl

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

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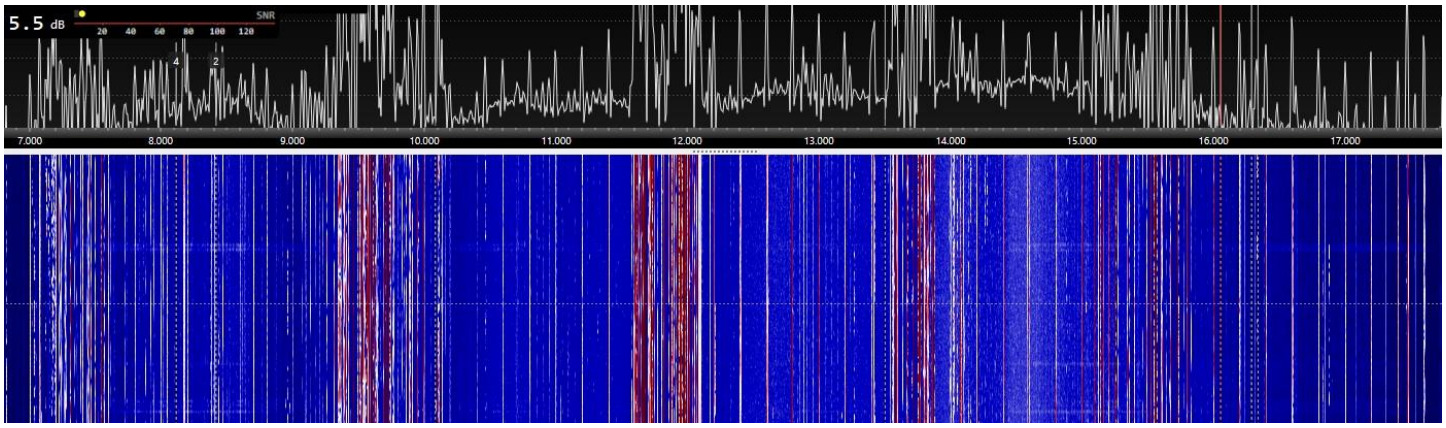
CONTENT



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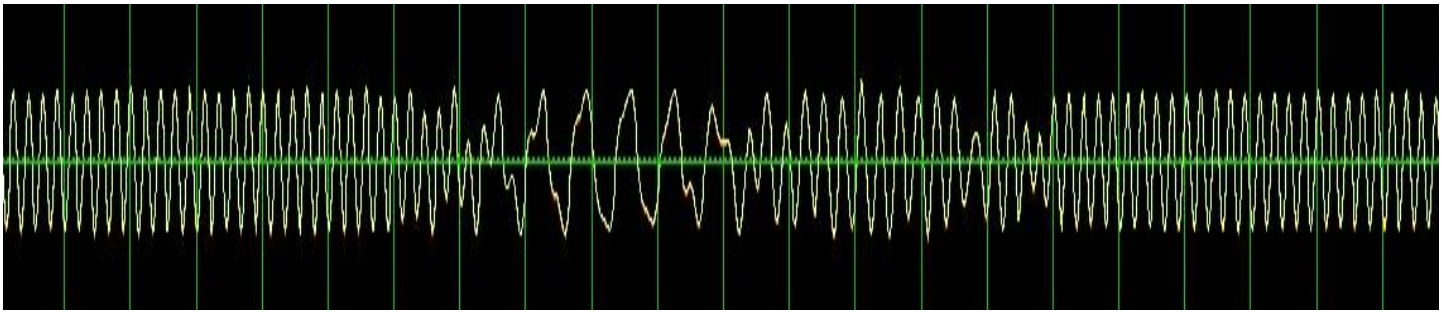


FOREWORD

Polish 11 (E11, S11a, F03, P03) seems to have some problems. A number of their scheduled transmissions were missing on several days, a couple of messages were cut off during the transmission, and on 13 July all scheduled transmissions were silent. They also had problems last month on several days and the problem continues in August..

F06 id 70202 and scheduled id 00000 transmissions were silent for several days. They were replaced by F06a transmissions on different times and frequencies.

There was a S06/M14 mixup on 29 and 30 July. Messages were swapped.

A big THANK YOU to FSpy for the large amount of V13 transcripts.

Some information that you may like:

- *A Cryptologic Mystery by Matt Blaze*
  https://www.mattblaze.org/blog/neinnines/

- *How foreign spies use radio to broadcast secret messages by Kim Kommando*
  https://www.komando.com/news/how-foreign-spies-use-radio-to-broadcast-secret-messages/

- *Secret Signals: Decoding China's Intelligence Activities in Cuba*
  https://www.publicnow.com/view/8C8EE890FC16C5273D82FDA3F7C9A8382611710F
  https://features.csis.org/hiddenreach/china-cuba-spy-sigint/

VOICE STATIONS

E06

13825/15615 kHz, 04-07/05-07, 0500/0600 UTC
679 804 53
73647 76792 39744 06987 09092 09541 48595 13980 46779 41645
02748 29373 29207 92695 10683 22970 19448 18373 27329 27114
42677 36801 79626 33019 12551 79235 13659 95202 97149 38486
30564 79776 04146 13543 03395 17511 89909 73828 92130 47630
22221 91515 99015 63266 51282 15349 31420 94507 68723 84407
64407 89985 59278
804 53 00000

13825/15615 kHz, 18-07/19-07, 0500/0600 UTC
19007, 0600 UTC: Windows XP sound effect heard after the transmission
679 328 50
91825 21106 30715 70231 25652 28383 57362 52225 68194 40423
09018 41906 44243 11910 87794 68184 66008 14706 82078 93365
21955 50782 74939 73890 74722 10560 79600 56416 35315 12608
81643 07602 05745 85610 92643 01010 07321 78575 44907 09585
36773 10186 82024 77131 17393 93259 24902 67230 37382 95243
328 50 00000

E07

13562/14862/16162 kHz, 04-07/06-07, 1410/1430/1450 UTC
441 441 441 1 440 120 440 120
55106 39780 49379 62397 23408 33792 93726 94629 89774 09446
06078 01325 03567 66462 47874 42183 70877 73892 92929 58286
43220 04392 99842 56305 79354 78406 87736 50399 76366 74339
23585 52309 11016 26289 70168 52660 95166 75303 53202 82195
11237 53098 52664 44883 79612 31988 11070 23155 28581 93120
81676 68537 65731 71059 00430 84844 46311 05798 21936 63100
81757 85574 45091 08037 68306 05269 42000 07038 37184 08139
01885 50554 56126 44272 14248 17873 13712 35776 38835 58574

82993 02681 84920 60536 45440 59841 30628 22645 70577 08841
36960 18845 02212 57282 12204 25305 02417 99504 03265 41285
09227 98156 11144 63661 00189 68250 57735 05869 04035 95658
18524 41527 20768 26824 53933 90095 91806 50708 08205 38991
000 000

13562/14862/16162 kHz, 18-07/20-07, 1410/1430/1450 UTC
441 441 441 1 524 86 524 86
03358 93218 53348 57273 21586 98353 10263 14998 26973 93779
85636 64092 78821 89644 78820 25290 10016 80283 02162 49139
85433 85132 48438 32746 01203 73519 09429 25452 72439 75031
04268 27226 50203 12029 59191 43767 37602 45821 01021 98434
21971 16702 66513 86280 64063 50197 25394 66438 13106 09764
49436 35380 43543 93488 12394 50856 91709 25011 31103 90497
19110 29841 90909 96616 47795 44175 50062 71425 44648 82642
25916 95213 70233 55106 46901 28435 16244 43605 32468 05731
42014 99765 53868 19418 47523 68757 000 000

16232/18332/19132 kHz, 1500/1520/1540 UTC

16232/18332/19132 kHz, 09-07/12-07, 1500/1520/1540 UTC
12-07, 1520 UTC: restart after group 106
231 231 231 1 9679 152 9679 152
72156 69857 66439 16892 01273 98311 44179 79947 61135 02032
12745 73316 30830 00766 15199 03942 79589 79322 09446 32929
15937 71560 36140 04397 50239 37637 91269 07411 91997 56731
71078 45686 73620 04328 86471 80087 96125 43139 65255 53454
56032 74117 00978 15630 69219 13298 64224 99241 19457 42338
36502 96808 70883 51311 41763 81769 50055 64836 02830 26343
73908 68707 17767 17526 22027 79646 02825 08565 88126 67898
74482 26229 14855 28625 66823 40071 58283 01491 45746 74478
51313 25210 80593 73364 90444 82090 53504 63084 34348 89981
44116 24856 64784 72924 54519 29741 84808 90148 73043 41291
78594 69213 59816 09472 47127 72395 95290 81624 46203 95649
63523 45425 89591 52322 25571 17776 62381 14884 33041 39378
98995 30342 90063 44564 98152 25630 60855 64301 96126 39991
45536 31497 53107 20137 99148 55230 79408 59232 29774 54119
53560 53790 22435 80279 03377 92984 69380 74632 33346 35447
81196 86240 000 000

16232/18332/19132 kHz, 23-07/26-07, 1500/1520/1540 UTC
231 231 231 1 447 170 447 170
63497 90796 36410 25045 16508 27437 33871 84206 06339 73692
43350 40144 98576 62627 68632 31493 69867 21232 79728 48929
50324 82376 70028 94443 70354 13350 08632 34367 17577 35466
11985 70465 82108 65868 86709 28451 06305 85397 96894 23036
05899 20774 11111 86818 80157 51969 26140 16408 00336 47895
02554 54371 10143 19631 69382 81847 17495 48520 09043 36811
45043 34993 96693 01837 44120 73329 00012 50891 46395 96990
61475 09503 05421 98244 10721 94515 73884 60278 75309 39791
95694 50221 59333 56432 77945 88771 82665 30386 58996 97843
49974 55445 27839 07561 86222 59188 34637 61054 14069 30022
67428 12139 49039 53225 62394 63249 05161 79258 29054 27488
73395 80650 64303 08095 52330 23338 35982 01742 49600 57707
03471 73619 32256 52296 47357 53190 59829 16385 38560 62444
58481 55943 95506 08004 94388 13452 97817 88429 15902 05513
04473 20153 36683 22049 60937 28762 78849 18956 26525 06728
32080 30696 02460 98803 64121 74834 87213 23876 00976 64294
49824 06861 04377 14259 85171 90640 52646 94045 77693 23269
000 000

E11a

12815 kHZ, 01-07/03-07, 0845 UTC
710/37 Attention
53694 16045 70847 54641 13805 42773 84900 96541 51450 46838
64412 33162 44001 92423 60311 11218 13720 76647 89932 67116
16114 60423 25459 70834 85712 59693 15762 84624 09908 02560
01608 10676 39805 61820 94122 66759 61067
Attention (message repeated) Out

12530 kHz, 02-07/05-07, 0715 UTC
639/38 Attention
59939 79202 92122 54925 36828 86952 22877 49778 89830 76879
61962 73284 24262 86793 05947 45797 97138 75191 58831 44481
77839 68760 56372 77568 14139 46509 74737 75956 38615 79097
47285 14866 93651 41096 07466 87825 58463 23083
Attention (message repeated) Out

14940 kHz, 02-07/04-07, 0745 UTC
229/31 Attention
59134 52299 75706 90719 66603 73503 85580 40268 73603 86194
70826 23470 32300 92581 87533 35763 61271 76665 14681 51054
18556 82065 39727 92862 38855 49186 24851 21766 38484 32003
57241
Attention (message repeated) Out

12984 kHz, 02-07/06-07, 1430 UTC
912/36 Attention
28234 78995 00301 25264 63067 48067 95027 60520 84321 97933
58043 73986 50839 20913 37211 40480 20610 53254 75400 96806
03428 42675 26036 72327 20301 66947 37057 87392 42602 07217
54499 74243 17552 27490 04140 98808
Attention (message repeated) Out

12815 kHZ, 01-07/03-07, 0845 UTC
710/37 Attention
53694 16045 70847 54641 13805 42773 84900 96541 51450 46838
64412 33162 44001 92423 60311 11218 13720 76647 89932 67116
16114 60423 25459 70834 85712 59693 15762 84624 09908 02560
01608 10676 39805 61820 94122 66759 61067
Attention (message repeated) Out

9150 kHz, 05-07/07-07, 0600 UTC
358/40 Attention
37670 38146 00891 14419 84767 32434 07745 40068 06768 60617
96508 16410 71610 10690 27449 60978 76653 43844 96000 44320
39295 11749 77353 95826 40954 16201 35175 26185 40709 56719
67402 14678 49121 23391 49021 34955 41586 35971 18814 77991
Attention (message repeated) Out

16125 kHz, 08-07/10-07, 0315 UTC
252/33 Attention
70439 78945 24607 75636 72839 66535 01818 71276 41236 99332
67111 83176 91039 45147 46616 05791 81364 38911 36751 04518
20535 75469 62567 31641 76651 22357 29649 10037 98027 02078
79311 87727 68939
Attention (message repeated) Out

8680 kHz, 09-07, 0700 UTC / 8680 kHz, 12-07, 0700 UTC. Off after group 20
576/32 Attention
75587 35955 49385 18130 51232 80362 06328 16199 61174 92667
72577 13092 99539 04062 28533 43558 66295 40991 10182 99354
88390 32533 88466 64652 26343 54129 55591 01512 03388 42330
23685 53837
Attention (message repeated) Out

15720 kHz, 10-07, 0745 UTC
15720 kHz, 12-07, 0745 UTC. Off after group 30
340/31 Attention
30644 32423 88206 55004 05410 51924 00642 76555 98231 70275
35552 80750 37358 81438 65384 65119 55502 01715 52632 82712
18677 25881 14044 83637 98901 78882 74446 87262 48089 02496
16277
Attention (message repeated) Out

12815 kHz, 10-07, 0845 UTC. Should be a null message. Cut off after group 24
715/33 Attention
92156 97756 69018 37330 42228 76334 82108 43090 09740 58834
39148 70480 35365 48775 25388 03558 31738 55690 41195 40241
59659 26107 05958 26336 Off

11116 kHz, 10-07, 0900 UTC. Cut off after group 23
532/30 Attention
38127 63500 54764 04912 82391 42410 22878 80625 35017 89998
83547 96528 26266 14092 98321 96880 28863 75979 41553 06704
55990 91352 88699 Off

10356 kHz, 11-07, 1530 UTC
267/38 Attention
54637 24797 95257 59955 18464 11087 50433 20772 10632 97507
81648 85397 69895 46362 75588 17879 18209 13669 58897 81128
55031 67473 42419 85297 90683 43197 31395 03859 09264 60743
74995 66996 46549 81255 86815 86129 24653 81403
Attention (message repeated) Out

6252 kHz, 12-07, 0820 UTC
432/00 off after 39 sec

16335 kHz, 12-07, 0830 UTC
189/35 Attention
58929 54659 11425 95782 19437 17132 63275 99347 21935 81357
09781 68851 86347 33066 22892 37059 31437 55294 39305 71803
62259 66992 69087 56287 35545 38536 87763 25291 48790 06170
28307 08701 68375 20909 20945
Attention (message repeated) Out

9610 kHz, 12-07/14-07, 1910 UTC
617/36 Attention
52101 81218 02189 95982 58749 82925 95719 62227 11028 09189
86573 99274 38242 36475 58201 77422 47790 17624 08522 14645
65689 51255 54028 94040 96814 28440 97164 71933 18870 77070
54910 11901 69358 88095 25029 73174
Attention (message repeated) Out

5409 kHz, 14-07, 2000 UTC
524/40 Attention
53310 34935 58369 13801 60896 69333 20138 19632 96939 03746
23600 73954 57189 52174 73156 03601 08643 90341 33181 92297
33910 50716 05443 75830 16664 21885 87752 28563 89145 94933
39198 14443 58829 34312 55331 97939 69960 98238 88979 02594
Attention (message repeated) Out

7469 kHz, 15-07, 0450 UTC
8088 kHz, 18-07, 1730 UTC
416/35 Attention
35479 09794 24879 92739 80254 07147 30729 70415 45371 86235
79928 71454 69199 10986 81060 65093 40710 75205 79597 67505
45491 15797 01988 87145 12570 43761 61946 60334 52767 34266
31731 38169 89928 41033 07485
Attention (message repeated) Out

20170 kHz, 15-07/17-07, 0600 UTC
940/37 Attention
96358 13053 54700 14273 94358 47673 66328 95237 37022 94074
88711 02657 09589 05848 76932 45256 04705 97445 06988 75294
26694 03270 25522 23840 41460 08792 97772 39367 36171 26544
30644 25152 35078 17548 26979 50909 86423
Attention (message repeated) Out

10210 kHz, 15-07/17-07, 1045 UTC
697/31 Attention
18291 27359 71937 31050 36947 55875 79873 48085 78970 52050
01633 48513 66719 42053 36695 28535 71547 35907 45323 36157
79119 09404 05839 34520 96168 59774 19414 05972 49361 06879
11068
Attention (message repeated) Out

14410 kHz, 15-07/21-07, 1745 UTC
249/35 Attention
37507 94455 14891 07503 69158 76277 66736 20531 96690 70047
83101 75316 68982 05244 76515 13451 06969 16690 34271 33355
49314 04201 99164 01310 44765 91965 54203 44732 31760 27084
58861 14574 36662 75967 42499
Attention (message repeated) Out

7600 kHz, 15-07/18-07, 1900 UTC
648/38 Attention
35397 33744 17826 62320 87214 29348 02044 62847 73897 22771
90414 83804 98112 99755 83655 98377 29371 84953 81534 79524
92309 27683 02247 71926 77626 95630 66811 88549 85751 86261
53641 93864 46193 96763 72140 00162 22029 60915
Attention (message repeated) Out

12984 kHz, 16-07/20-07, 1430 UTC
918/38 Attention
80381 84702 59296 26166 78008 57931 72591 31885 83617 15298
41415 33872 82577 01168 24977 43659 45245 95925 19819 81933
79224 73929 70815 98485 84044 96747 08849 95004 62423 47783
66328 58069 04744 44786 67197 78548 63227 62310
Attention (message repeated) Out

5409 kHz, 18-07, 2000 UTC
Unmodulated carrier. Nothing else

12229 kHz, 19-07/21-07, 1815 UTC
925/38 Attention
18397 40767 82031 05961 05593 02096 48568 63678 51191 02165
41667 81437 64554 16878 34667 41976 72382 35458 92404 89808
50381 71337 03010 22033 84263 99770 48527 43080 14833 01481
29838 02146 12126 88302 74203 89291 10861 07442
Attention (message repeated) Out

15915 kHz, 22-07/24-07, 0715 UTC
751/36 Attention
01909 14656 85982 46071 40920 49243 29443 05266 00374 94925
36336 01598 32578 28875 34542 60548 83089 19003 49752 52002
10231 78709 20498 38189 73245 33524 20561 01027 99864 15091
12147 28701 06326 37489 34219 75119
Attention (message repeated) Out

14940 kHz, 23-07/25-07, 0745 UTC
223/40 Attention
58699 55427 19963 39521 37609 06415 01991 21094 34673 08731
96186 56330 46804 19849 63091 64715 34203 60672 71252 54369
02202 86023 57702 60785 46330 01415 90818 81707 54798 21466
08383 17466 37724 09327 22017 22458 06918 48513 80433 64091
Attention (message repeated) Out

17378 kHz, 23-07, 0845 UTC
Unmodulated carrier. Nothing else

19184 kHz, 23-07, 0845 UTC. Unmodulated carrier. Nothing else
19184 kHz, 25-07, 0845 UTC
159/25 Attention
36755 37374 02907 40581 68424 77801 99027 21697 44599 80688
94199 99886 59468 80377 22476 68777 44762 45959 28388 70963
42242 34018 09330 86156 39893
Attention (message repeated) Out

5231 kHz, 23-07/28-07, 1605 UTC
232/31 Attention
22613 91811 06207 18983 12625 64534 30982 60732 84041 76216
66912 97417 19601 48258 98886 69072 43070 22489 89605 46571
10572 55568 23444 88185 49721 98520 42131 47224 71954 39966
34343
Attention (message repeated) Out

7863 kHz, 24-07/26-07, 1715 UTC
975/33 Attention
63765 17148 05292 02302 28712 26392 14441 43764 31455 70543
50228 23071 53394 18880 59111 73299 53942 04376 68068 63209
16724 83243 73387 31726 89548 26678 74357 70811 23110 50719
79624 88453 13540
Attention (message repeated) Out

9150 kHz, 26-07/28-07, 0600 UTC
359/34 Attention
41543 87913 25151 54340 98922 88370 14581 46926 77068 53093
65657 62192 31826 30562 06318 38778 03185 37480 04586 31041
48396 86713 33007 43650 63684 64306 84275 04578 72369 48588
52940 56742 14019 46782
Attention (message repeated) Out

17378 kHz, 30-07/31-07, 0845 UTC
133/37 Attention
20130 99211 61462 20679 77424 56863 65980 88519 04018 53898
90941 06339 03498 09394 96546 60364 37317 51919 61263 74472
84641 81811 18816 77164 73964 79520 82039 21947 06582 47895
50640 86325 73418 06805 50265 86577 38654
Attention (message repeated) Out

8274 kHz, 30-07/31-07, 1205 UTC
464/37 Attention
82769 73045 61824 62092 99151 90720 83807 41727 13716 14427
19443 21909 16919 73841 07880 20340 16463 20237 77935 19087
06477 04434 48799 21062 76746 44532 59680 28652 63144 81221
05463 06784 14175 20600 90901 67200 71756
Attention (message repeated) Out

S06

11616/9322 kHz, 01-07/02-07, 0400/0420 UTC
480 597 60
20994 59294 34068 77257 29552 46630 04312 50496 76843 43565
66273 21242 07826 47516 45195 81502 86507 73428 65288 74768
17528 55403 26630 24257 06107 40226 41537 58514 04821 14970
41343 89073 20624 35870 89532 19847 80569 50660 62147 92942
79648 31547 81429 00600 59210 61022 13617 17921 89368 37687
66833 36092 53866 94292 50022 00784 60810 45168 78846 85406
597 60 00000

11616/9322 kHz, 03-07/04-07, 0400/0420 UTC
480 623 24
40492 48444 44681 12474 30576 72373 40769 19535 21168 12613
32537 02247 09071 98746 70827 04346 35597 25502 45058 26901
50993 43601 81288 37393
623 24
480 917 29
92454 09428 37359 99210 78725 49104 97575 10532 91890 24589
57557 94603 90009 88645 68493 19268 46736 56790 19180 59526
67235 80605 71310 17777 08099 41067 94876 44533 99698
917 29 00000

11616/9322 kHz, 0-07, 0400/0420 UTC
480 480 480 00000

11616/9322 kHz, 08-07/09-07, 0400/0420 UTC
480 362 51
31866 75385 36092 84791 27178 23904 08302 43042 50049 24398
81602 64373 34264 50359 21277 39334 28244 97281 46766 49968
41400 83195 78074 20590 91760 55541 13913 27249 47054 65340
46268 89328 76435 94574 41086 91704 55047 47738 39753 10916
88595 43477 61068 43765 50139 67274 08390 61810 46268 71096
11649
362 51 00000

11616/9322 kHz, 10-07/11-07, 0400/0420 UTC
480 159 60
01234 32055 89919 62998 97011 84305 02663 07508 40224 87194
68708 83150 82511 04066 05533 56089 23609 53203 77583 88671
50821 23941 70563 79613 83670 18648 95117 51144 53405 69026
62086 94075 72061 00177 96546 06707 70762 40836 82793 88522
11945 03263 57478 74609 05197 81174 93073 21734 81398 39197
38855 82018 04848 92251 11598 25152 28065 98326 53160 95072
159 60 00000

11616/9322 kHz, 12-07, 0400/0420 UTC
480 480 480 00000

11616/9322 kHz, 15-07/16-07, 0400/0420 UTC
480 237 59
78707 85274 65609 41035 93174 85316 10113 13829 52575 79703
70019 58592 29408 63216 55734 84847 33757 73677 68204 31777
08779 38033 73351 59136 79002 82757 97301 42168 18668 44137
22112 68961 32252 39759 86663 63683 64408 86897 22426 84139
81470 78829 78762 67073 91741 54993 17486 19665 96731 25931
81331 80661 90535 38962 66044 99567 49558 95506 50771
237 59 00000

11616/9322 kHz, 17-07, 0400/0420 UTC
11616 kHz, 18-07, 0400 UTC / 9322 kHz, 18-07, 0420 UTC. 480 (R4m) then off
480 651 23
22980 97036 11697 09236 54966 82994 91032 50826 73309 55884
07360 21819 24972 47183 76332 66869 40123 17274 22598 97861
96432 20702 24812
651 23
480 972 31
81229 28224 10977 40617 78077 86131 27352 49168 16616 69730
59939 85350 65223 58586 69912 46807 45985 07428 27483 42381
67055 51738 58571 19232 27003 73199 90799 86536 02057 79690
72233
972 31 00000

11616/9322 kHz, 19-07, 0400/0420 UTC
480 480 480 00000

11616/9322 kHz, 22-07/23-07, 0400/0420 UTC
480 635 57
38858 51376 91705 93674 88370 27245 79259 06012 90377 76291
06588 88176 04113 35982 42433 65986 44183 81958 53068 86111
95475 71345 62567 36186 07464 83025 97943 89233 10093 65831
73831 45855 18442 30574 96418 72593 18333 46867 91285 59940
50090 30669 84881 48403 32634 33485 94277 96078 95086 69168
04927 86161 08094 39257 41091 97841 32031
635 57 00000

11616/9322 kHz, 24-07/25-07, 0400/0420 UTC
480 912 33
01842 00133 53849 92058 47859 58774 38560 16767 95445 08230
99980 77319 79013 97972 47575 06451 64366 42645 57642 76168
39051 92551 19581 97790 56319 72234 22477 23654 87396 60538
49211 86410 61728
912 33
480 763 25
14506 29578 45856 46794 49055 72370 94705 88828 64857 63008
23522 98437 77563 34904 50121 93492 95454 99067 52574 54457
46413 97713 30990 02068 10067
763 25 00000

11616/9322 kHz, 26-07, 0400/0420 UTC
480 480 480 00000

11616 kHz, 29-07, 0400 UTC
9322 kHz, 29-07, 0420 UTC. Off at 0424z. Preamble at 0425z. Off after group 12.
The repeat was sent as M14 in the M14 slot on 30 July. Also as M14 on 31 July, 0500.0520z, but with a different 3-digit group (170).
480 192 50
92350 00308 04659 29744 99295 29987 34771 23546 57838 37068
75507 21363 54979 50082 12174 37971 80893 76320 38333 01724
54947 75683 43797 88205 62757 89701 78478 33290 90213 55422
40574 67778 65420 58843 62494 40806 44477 07590 92985 24207
02051 27515 98881 15019 12670 12912 34924 78329 33675 85027
192 50 00000

11616/9322 kHz, 30-07, 0400/0420 UTC
Note: this is the repeat of M14 on 29 July.
480 483 50
99560 55584 09386 31096 49684 50361 05129 24480 16789 21077
06053 22777 61327 32372 22260 85945 05335 80635 41715 58970
74491 73045 69233 85526 60196 06717 65948 24089 93858 08878
93959 89914 50572 24026 95842 71349 24385 58987 63712 93882
42325 21828 77521 30394 09390 15547 17283 81030 01685 72497
483 50 00000

11616 kHz, 31-07, 0400 UTC. No transmission
9322 kHz, 31-07, 0420 UTC
480 573 60
95775 91715 20145 59579 36386 09518 00405 04531 16429 71223
41679 01091 82467 79250 79072 14878 88165 04718 57222 89285
26432 66937 21490 70128 96434 87212 80715 88206 60162 90398
08753 35717 68219 52645 76958 97446 59557 18779 34827 22691
64809 37742 80951 48832 67930 89540 91513 12515 05826 02135
98474 09354 10656 81703 35658 88121 24497 04731 87925 90340
573 60 00000

S11a

6814 kHz, 01-07/05-07, 0915 UTC
487/35 Vnimaniye
42991 43657 40428 11960 05994 09117 58361 74977 73795 09312
55887 51493 26009 68430 34143 84633 36879 63728 25547 24842
50966 88059 37528 60227 89648 69889 68327 63297 77647 68408
30812 41114 48851 90049 84308
Vnimaniye (message repeated) Konets

9968 kHz, 02-07/04-07, 0445 UTC
796/33 Vnimaniye
18004 98785 54692 36838 32708 16744 86568 91099 89434 71451
58041 93374 82076 44388 97049 33716 14192 94786 68154 33319
64525 27083 98414 52778 26430 45950 71244 80144 51944 95461
16212 46846 30294
Vnimaniye (message repeated) Konets

12457 kHz, 10-07/13-07, 1850 UTC
287/38 Vnimaniye
49704 72519 67075 46805 97626 29882 77054 29140 29552 58893
04479 76151 19871 45428 58880 14217 16400 41082 57164 40412
36617 64306 37374 79168 66013 64125 16871 04175 67954 71021
62500 40722 47679 42319 76794 29727 87174 31667
Vnimaniye (message repeated) Konets

9339 kHz, 11-07, 0700 UTC. Off after gr 19 during the repeat
476/36 Vnimaniye
93668 85271 40645 18422 11678 88554 82265 87631 98311 39290
24422 29809 58764 60186 05079 45484 82169 58914 53962 15547
70154 96308 21843 79056 38091 62590 82537 71265 64197 65334
71274 99225 01384 64019 85626 23514
Vnimaniye (message repeated) Konets

6814 kHz, 15-07/19-07, 0915 UTC. Off after group 19
486/37 Vnimaniye
90709 77739 24906 22984 34778 14220 25982 14252 71802 95782
10248 76131 59274 39719 27892 92016 28878 70737 24840 14279
54711 69947 56307 87717 06784 61195 39605 36632 17794 53827
83841 78450 71461 02869 89132 74607 21054
Vnimaniye (message repeated) Konets

9448 kHz, 16-07, 1400 UTC
425/37 Vnimaniye
20181 74917 94057 48857 44614 22906 88961 78970 74101 62165
62846 41312 32081 62234 20574 86974 96436 57522 29717 41302
89228 42625 95794 87876 40538 33922 23531 32108 64734 13331
41773 48481 59565 19220 98445 27181 31037
Vnimaniye (message repeated) Konets

20905 kHz, 24-07/26-07, 0725 UTC
383/36 Vnimaniye
49051 28876 39992 82196 84456 26128 68296 21190 15094 90094
80943 82431 26393 58714 04394 05839 95174 90177 40349 29608
56408 92994 81031 28487 43111 61506 14631 67100 42694 86290
31873 06309 96503 53212 75598 00812
Vnimaniye (message repeated) Konets

5149 kHz, 27-07/28-07, 0830 UTC
373/31 Vnimaniye
88806 31451 72379 67360 18283 05436 44846 01040 47882 29034
25271 38233 04946 61730 49900 64972 04552 52457 30832 87984
32015 94637 76752 07590 73197 53481 13125 84317 25119 77160
78073
Vnimaniye (message repeated) Out

V07

Last month's missing transcript:

13927 kHz, 16-06, 0700 UTC
942 942 942 1 2259 74 2259 74
39794 64966 68396 70536 64286 33965 48483 61389 56404 05283
99628 52727 63154 27633 97789 80588 21675 67863 56510 73751
53592 14613 71801 07770 30701 72694 76413 87215 50757 24587
53325 51730 41767 50007 54080 05611 73369 88453 42170 06449
83024 44140 19636 38102 21850 35994 53635 50322 32623 55665
02642 96138 70323 75500 18488 09995 87280 81761 15474 71902
58797 71861 61773 92103 04542 32531 42698 34202 54743 55469
86464 05564 66931 86940 000 000

13978/13378/12178 kHz, 07-07, 0700/0720/0740 UTC
931 931 931 1 532 103 532 103
18335 99334 11430 73972 55985 91192 04361 73812 17730 64159
70371 17626 61937 61420 56393 79051 07604 73643 63057 43863
09841 92419 64605 56667 04018 67288 92957 92331 81249 39034
39120 77387 32050 22431 90903 06515 85930 80224 41165 59299
28200 43512 35547 74375 37952 00811 18593 43265 76309 19903
48986 39153 73155 22552 64489 70489 66606 55745 54778 61368
35034 56672 44424 59294 64406 57844 58805 91095 30951 50643
80785 15686 00268 99588 41311 45862 22240 46510 29259 53475
79867 60932 53557 41322 49324 49018 70986 07066 02500 79836
79868 48204 33698 77035 37452 94245 92173 82752 63983 35350
85390 31093 99615 000 000

13978/13378/12178 kHz, 14-07, 0700/0720/0740 UTC
931 931 931 1 2446 96 2446 96
92545 69258 11453 09048 44313 60355 86945 17295 54440 37417
21941 13586 74407 54185 72456 26738 08430 80619 05538 48326
59617 76927 31692 52652 52188 61805 80352 03173 59462 48294
68226 79104 13143 52717 76437 69543 43632 23959 91496 51592
86571 42511 74944 30225 68861 23599 82506 78144 47023 33429
60345 04613 06372 72328 84180 23509 48042 43890 35447 10874

45818 39626 31286 28919 13684 92832 35122 17804 50106 75320
08112 31223 16566 93644 62057 71042 31302 16405 03117 86666
28289 09932 27072 83392 53757 53050 64059 82925 69501 52555
66108 25728 08134 53539 51422 73047 000 000

13978/13378/12178 kHz, 21-07, 0700/0720/0740 UTC
931 931 931 1 109 87 109 87
62917 91822 72955 11994 15877 20048 54767 40283 84864 91786
80269 60103 33901 04433 12393 92859 44226 39587 50508 03107
07435 55956 03423 48677 14728 06181 57402 52859 44119 47455
76699 85062 20893 23469 77851 71394 72430 37186 84426 02975
06236 11318 09981 27416 03317 71445 42385 90889 91448 48578
45612 84177 24113 04337 72125 65503 95950 72405 40108 06356
90877 21452 05664 46927 36656 88990 19042 95708 14091 92180
41869 67960 63336 34193 69054 29317 51468 34859 03751 71403
87913 98135 85122 69949 80236 51411 06047 000 000

13978/13378/12178 kHz, 28-07, 0700/0720/0740 UTC
931 931 931 1 610 74 610 74
01229 04130 95937 67596 06025 63616 89055 63327 35844 34872
54951 89582 33084 43473 23469 93836 20448 92820 68170 37279
48762 79922 04849 45861 74310 54844 91341 78357 48534 77125
53345 88663 16271 23372 62579 14799 61131 99983 97402 15982
28157 31833 70137 55086 94449 48424 61662 02522 89077 70731
80561 39742 17739 98964 27348 92134 55764 54534 00538 08915
56697 36599 93028 82852 93056 96109 43873 84777 82261 36980
79078 95295 82183 70291 000 000

V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)

Fspy supplied a lot of transcripts this month. The following schedules were monitored:

00:00 and 00:30 UTC:
Station 1, 18040 USB
Station 3, 15890 USB

01:00 and 01:30 UTC:
Station 1, 19052 USB
Station 3, 18040 USB
Station 4, 20025 USB

02:00 and 02:30 UTC:
Station 1, 8169 USB
Station 2, 8300 USB (often clashes with a fax machine signal from mainland China)

03:00 and 03:30 UTC:
Station 1, 11430 USB and AM
Station 2, 9276 USB

15890 kHz, 02-07, 0000 UTC. Station 3
Unit IDs: 3281, 3360, 9123
Group Counts: 35, 34, 33

5323 9364 6645 0639 4711 0072 9312 0550 0673 4936
1581 0811 1257 5328 6682 4147 3391 0531 9925 4302
2573 0718 4909 0147 4372 7359 3372 3437 2300 7613
6914 9985 2528 1715 8170

4239 3308 8751 0151 4673 0262 5756 9433 1791 7085
3316 3167 3474 8256 4098 7622 8201 5659 8829 2843
6184 6855 0350 6892 6323 1820 4053 7942 0884 7748
6990 3142 2938 1062

9959 8867 1992 3332 7495 6595 7252 3348 6284 9937
7360 0300 0543 9336 9530 0235 1690 5752 4786 3815
0427 4277 4475 3196 3784 4742 3510 3351 4830 7749
0772 1296 6638

Note: signal quality faded a bit during the message to unit 3360. Unusual, because Station 3 tends to have consistently good broadcast quality. Also, no audio on 18040...only a carrier wave (Fspy).

15890 kHz, 08-07, 0030 UTC. Station 3
Unit IDs: 0521, 8643, 9614
Group Counts: 33, 31, 35

0995 7640 2172 5353 7342 7689 6842 4574 2212 0916
1052 9829 0171 1376 5978 2482 4247 9053 1623 6273
8344 0251 4702 3824 4485 2358 4463 9562 1181 7113
8274 3124 7129

3412 7511 5790 0255 7578 3584 5444 0051 0001 4030
7162 9606 1189 0424 9196 5592 5311 2695 4369 0388
9914 4292 7608 2321 9046 0664 7884 0495 7812 7605
5882

8132 1435 1516 2737 9592 4296 2269 4753 5169 4070
6115 7203 2762 8715 7113 9139 8278 0371 9044 8570
3420 4812 6128 0866 6824 4354 7062 9954 7703 2235
1210 5337 0865 1347 8316

19052 kHz, 08-07, 0130 UTC. Station 1
Unit IDs: 3497, 5874, 7867
Group Counts: 31, 31, 33

5388 0619 7189 8240 7742 2130 5569 8016 8375 0465
7469 9729 6219 5333 1784 1722 4620 0201 9686 0012
8205 5224 5747 2844 7871 2769 6655 1277 5502 8126
2422

7126 7396 3396 5877 2794 0716 2291 4792 6978 1693
7297 2221 0802 4823 0071 8437 6520 4587 3968 5733
0900 1847 2874 1854 4706 6176 8434 0420 2990 0130
1394

8425 5630 1772 7636 3678 0596 2339 1174 6272 8575
7673 5830 7474 7723 1678 8961 9782 7877 2139 5012
0722 7622 5810 3828 4323 2189 9788 6398 8546 7172
3136 9525 6921

9276 kHz, 08-07, 0330 UTC. Station 2
Unit IDs: 0225, 5351, 8760
Group Counts: 31, 31, 35

6488 4611 5274 8202 0943 0080 1000 7807 7390 3137
6074 7147 2344 2378 7300 5512 3279 6687 5828 8413
9948 5408 3689 3769 9570 1917 5574 8134 4140 5805
9838

0613 9835 2324 8886 1158 8500 4981 3980 5681 5724
3212 9334 0261 8680 1557 5489 4169 7654 3897 7091
1603 5684 5457 7400 1422 8155 7842 4018 0377 6373
6809

6002 8135 5801 3045 2030 4635 5416 5681 0697 9020
1180 1660 9724 7796 1193 3345 4722 1301 7690 8672
3269 4222 3628 1548 1920 7541 3759 8083 8326 8584
4469 3544 3856 3044 9394

15890 kHz, 20-07, 0030 UTC. Station 3
Unit IDs: 2956, 5759, 7516
Group Counts: 33, 34, 32

3205 6410 7705 4720 2594 5679 3438 6298 3777 8620
9115 1944 6565 5117 0256 5537 0814 5003 5876 4330

5103 5293 3798 8110 3869 3998 9811 2100 5842 4362
3011 7796 6187

2139 2693 6519 3560 5098 3461 9502 8844 6239 8541
2881 9627 6595 1302 2300 8750 4215 5621 1961 7395
9040 1961 1312 4856 6477 1905 9482 1481 2520 2105
5875 4901 0452 2949

3950 1258 7519 4769 8592 7949 2365 2103 1204 9389
6730 0635 5232 9105 1431 7118 4326 7119 4667 9744
8137 2333 4666 4212 9260 2566 3146 5540 7233 5378
3008 2880

9276 kHz, 20-07, 0300 UTC. Station 2
Unit IDs: 0562, 2953, 6351
Group Counts: 35, 30, 34

7045 0423 3177 3990 0428 2383 0048 5653 9463 7606
5027 9012 3794 6128 4938 6304 1696 4348 3705 0167
1090 6790 7874 2471 1687 7831 9866 1568 7277 2492
5091 4856 2070 4234 7108

7565 2874 2492 2653 4169 6480 0294 7882 2661 3959
4932 5006 2275 7458 6451 2965 9826 0655 7933 4621
6062 0998 3352 6009 8668 3845 0289 4766 4853 9988

2473 2338 0919 1799 1765 2097 7309 9767 1598 4276
0695 6343 4702 8504 5268 0521 1065 5459 9007 9214
3789 3261 2600 5999 0612 7604 4594 4299 7313 7856
1559 7633 7087 6821

11430 kHz, 20-07, 0330 UTC. Station 1
Unit IDs: 0519, 7455, 7544
Group Counts: 35, 31, 35

0421 8031 2373 0461 6778 8168 0341 7394 0965 7188
8129 4667 3390 9407 8441 0090 1975 6094 7967 8173
3536 1427 7279 7422 7841 4501 2079 0548 8812 5011
9194 8797 3672 8887 0519

1978 5458 6116 9139 0192 8080 0605 6273 5032 1501
4717 3478 4306 6046 0477 5993 9795 5196 9502 7551
5271 0741 4487 8702 7393 7268 7406 3503 8576 5771
2008

9402 7232 6355 5911 5334 6928 1652 5593 6993 7256
0855 9697 1230 4406 4118 9150 2703 4320 6358 8685
8914 6727 8269 5295 (Became too weak to copy afterwards)

15890 kHz, 21-07, 0000 UTC. Station 3
Unit IDs: 0989, 2513, 8536
Group Counts: 30, 34, 34

4931 3142 0893 8422 1552 1718 8850 6515 9483 8107
5732 9480 7297 9405 2155 6607 7749 1466 5143 7089
4064 8713 0866 9833 9578 5322 3725 4711 9217 0424

3006 1986 1859 2565 2177 6348 0689 8924 0419 0070
6168 6299 2667 7522 6189 3708 8282 1591 6125 6332
1911 0508 7327 7633 5034 0939 8412 4725 4224 5431
3711 2012 1296 7681

8631 4807 1929 5433 3373 6694 3521 7220 9846 3381

4618 1961 4141 8054 0698 8824 0086 7392 6289 8937
8494 0634 6953 0044 6837 1861 6895 5785 3865 9425
8480 2557 2191 3632

20025 kHz, 21-07, 0100 UTC.Station 4
Unit IDs: 4671, 6195, 6719
Group Counts: 33, 35, 34

1845 1132 9486 0376 9024 9310 0676 8189 2125 5832
7640 8028 4412 0242 1546 7078 9615 8295 6132 8896
8744 7267 5169 5398 7855 6812 5732 1208 7165 0502
6038 7002 9027

7320 3469 5440 5839 7169 6230 9229 0438 0766 6157
9571 2008 3933 6453 1687 7934 3885 8655 8913 4929
5697 0166 5097 6644 3579 8920 9867 0555 1777 0559
2112 5254 1590 1113 5160

8090 3651 1171 1632 4579 8317 8795 4674 8591 7951
3095 7744 5942 4340 0060 3829 5656 3117 4067 7079
2283 6471 4144 4406 5351 9249 3977 2208 1638 7124
5951 0387 0946 3700

9276 kHz, 21-07, 0300 UTC. Station 2
Unit IDs: 0314, 8272, 9527
Group Counts: 34, 31, 33

3819 2101 3012 2250 0348 2341 0044 1507 5899 2157
5993 8556 1942 5764 5126 5293 5991 3558 6475 2910
1430 6592 8823 5513 5792 7784 3603 4841 7834 0717
7240 2649 9983 7937

6207 4350 4059 1966 4770 5911 1447 2675 8183 4583
2674 5676 7862 6964 0431 8043 0554 7709 3440 6193
5605 4176 1051 9613 5728 2908 2587 0432 8941 0508
9538
6785 5587 9568 2835 7710 5874 8599 9349 1534 1235
5434 1542 5137 1396 5503 7943 9328 5254 2294 3012
3147 1996 7223 1680 6546 0503 1694 9576 4561 4179
2002 8854 5005

8169 kHz, 23-07, 0200 UTC. Station 1
Unit IDs: 4762, 4966, 8089
Group Counts: 33, 33, 35

8156 4595 3823 3537 5636 2546 5481 4963 8237 1136
4236 1524 6998 7451 4061 6205 0642 1435 2905 0284
9233 3246 5704 3914 1715 4138 3423 8466 5002 5120
5940 3766 7182

6579 8676 3144 9866 0705 2140 3228 1457 7123 8549
7628 6672 3932 2459 6322 6184 5674 7418 0523 2396
5997 3678 6802 2962 0901 6479 6506 2018 7336 7798
6755 0047 4314

3710 1519 7484 5608 5775 3543 1600 9308 5505 7630
7160 6311 2186 2484 2383 7531 4623 0190 1956 8973
0885 3464 7700 9572 2862 3382 1384 3296 3718 8421
5378 7837 8076 0547 2780

15890 kHz, 29-07, 1200 UTC. Station 3
Unit IDs: 1684, 2413, 5822
Group Counts: 33, 35, 32

5555 2874 9745 2838 9500 5707 4620 9088 3791 0875
7941 1685 8915 9775 5600 9294 0322 2544 9905 5248
0057 4118 6768 4172 8163 1012 9146 1818 2963 1363
9501 1987 1980

0355 5233 0933 1479 3464 3009 7477 4894 3563 6232
4877 2541 7059 4924 9207 2664 8212 6748 0050 8455
1483 2044 9444 2768 4534 0181 6590 3754 9796 0872
0851 3769 4393 0492 6190

2312 9813 9865 4868 3290 7488 8964 9575 0604 7289
3630 5742 9224 7186 2461 8802 1588 5926 4825 3185
5124 1725 7797 9989 0738 4088 2854 8705 7653 8425
9468 6403

Note: started a minute early. The whole broadcast played a second time as soon as the initial transmission finished, intro music and all! (Fspy)

11430 kHz, 29-07, 0330 UTC. Station 1
Unit IDs: 4152, 6324, 8759
Group Counts: 34, 32, 30

1942 7010 0402 1308 8233 6600 1798 6721 4613 1646
3965 1566 1282 8946 7109 0145 8311 1854 2273 6169
1989 9032 7908 1229 0819 6029 2216 1125 6536 3173
9243 4915 9749 8222

2225 9059 4868 7071 4601 9087 6582 9986 5259 6977
4990 4156 1071 5982 2520 1288 6901 3598 8627 7881
2246 5314 2805 9052 3289 9728 1414 4614 9829 4514
9668 5561

2738 6364 1427 8965 5494 4683 2093 8527 2762 1532
7010 5956 6544 6617 0154 7338 6448 3028 4153 4716
0411 2383 6539 2988 9139 8307 1685 2688 1264 9113

9276 kHz, 31-07, 0330 UTC. Station 2
Unit IDs: 4883, 5234, 9448
Group Counts: 31, 32, 30

2166 9099 8442 4880 9623 1232 8554 7134 0886 7035
3325 9055 4003 9517 3298 1931 8422 5106 2557 9775
2463 0363 4309 8493 2515 5831 6544 1840 6500 1907
6539

9576 3201 7435 7921 7365 9706 8135 2204 8481 0985
2775 2783 8531 8387 0522 8192 8302 8153 7817 9393
3168 1218 3455 0463 2738 6091 6528 0716 7217 8416
0417 3809

0279 1408 8472 7182 7274 6089 4550 8190 5024 3549
0751 7627 3869 9204 3894 2148 1908 3619 0804 4088
1221 8442 7109 0072 0044 7787 0085 0304 4099 1380

VC03 - Chinese Air Defense

7921 kHz, 08-07, 1857 UTC, i.p.
5369 3987 3098 1758 9124 9183 0327 6483 0216 8963
9678 5763 5160 3968 9862 6432 4821 6893 9034 1089
0216 4743 9147 1324 3105 1209 2385 0739 4235 2714
5968 2364 4279 9198 1367 1098 4038 1723 0468 8017
etc.

8198 kHz, 08-07, 1826 UTC, i.p.
5603 5102 3926 5104 4137 5104 7101
5454 (repeated numbers at end of transmission)
2956
3434
3526 4428
3434
3526 4428, 3526 4428

8198 kHz, 08-07, 1831 UTC
4445 5346 46 5045 47 71 31 0709 0150 5253 8135 351 23 8135 353
5153 2569 3964 0714 5946 9436 6147 4389 0842 7613
0823 9316 4701 9327 3702 1468 4763 7530 8731 7054
8025 3018 9465 7283 8259 1397 2604 8023 5036 3207
9147 6752 4580 7845 7941 5763 6259 8320 2107 4628
3892 5823 6925 4506 8031 6183 1604 3684 8714 8953
5092 8450 9120 3469 6218 1829 0429 4576 8571 9723
1927 6813 1406 4167 0491 8734 3486 6201 1206 0815
3587 5390 2956
3434

MORSE STATIONS

M01

5280 kHz, 04-07, 1800 UTC
025 817 817 30 30 = =
28371 92835 73652 96867 36251 12123 27364 48564 86857 38475
97_67 8675_ 46573 12342 36723 84756 05948 83721 27368 98274
58372 95831 56213 92834 84731 21236 21256 92812 01921 25869
= = 817 817 30 30 000

4903 kHz, 04-07, 2000 UTC
025 121 121 30 30 = =
23781 92813 72836 28409 01928 72634 23451 72638 72634 23435
86757 56473 82710 93723 28791 02981 72634 83723 81721 28326
65743 34592 01925 82754 93826 12456 82731 43235 83756 10294
= = 121 121 30 30 000

6435 kHz, 06-07, 1500 UTC
025 489 489 30 30 = =
50968 57765 24354 10909 68798 27455 12980 58678 39876 44879
24354 18768 59870 59687 46355 28876 40978 14232 14435 48676
78766 24333 10090 58676 36454 28676 49877 59877 40978 16544
= = 489 489 30 30 000

4903 kHZ, 11-07, 2000 UTC
025 636 636 30 30 = =
62897 63519 62549 62519 52894 51903 52831 12894 48920 83613
28946 48195 90203 74618 52749 51639 52749 91813 53892 28461
73894 64518 92638 65821 54892 03618 74821 64926 64829 74902
= = 636 636 30 30 000

6435 kHz, 13-07, 1500 UTC.Sent 33 groups
025 565 565 30 30 = =
18273 92836 04937 64564 75632 75574 65748 75632 91021 12032
84732 75643 34627 83726 73826 01923 77234 81726 93827 61523
04986 73821 26172 83729 82726 18230 94857 86958 47102 01928
47362 83740 59821
= = 565 565 30 30 000

4905 kHz, 16-07, 2000 UTC
025 801 801 30 30 = =
85904 92873 67251 12434 75628 91826 73635 18273 02908 73628
91827 94837 62718 92837 73820 19283 74632 91827 32891 28374
09201 92832 27384 92810 92834 23746 72819 02384 73621 23457
82910 92345 17234
= = 801 801 30 30 000

4905 kHz, 18-07, 2000 UTC
025 005 995 30 30 = =
06755 57449 03342 24465 76844 93456 55761 95043 33657 67588
86556 57768 94885 03334 56475 86759 65744 86955 76859 44034
76859 44657 55765 92011 75930 38294 76859 30223 01130 57486
= = 995 995 30 30 000

5280 kHz, 23-07, 1800 UTC
025 169 169 30 30 = =
44567 77345 00234 22356 47339 11245 77685 44567 88234 00345
88456 93320 77123 44683 12485 66239 45361 00234 65447 82295
88564 99234 00345 77215 46638 99677 55344 61866 87995 44537
= = 169 169 30 30 000

4903 kHz, 23-07, 2000 UTC
025 116 116 30 30 = =
18854 66375 44839 44563 77243 00345 66355 74558 66293 x1231
88564 77345 99123 11230 11002 00123 33681 99234 44105 77104
66234 (contact lost with the remote rx)

4903 kHz, 25-07, 2000 UTC
025 119 119 30 30 = =
86909 99200 65733 12990 67322 66470 09129 99285 44670 76123
75612 88991 80808 64735 56640 38290 65712 67382 22100 86921
76890 84320 74893 86556 67690 87890 74313 74812 74320 84920
= = 119 119 30 30 000

4903 kHz, 30-07, 2000 UTC
025 104 104 30 30 = =
27132 92817 62738 49281 72635 26615 02938 74625 16273 82716
84930 84739 21234 86743 29137 28394 82712 23123 04938 29102
38473 83920 20912 38271 92834 03928 71623 93271 02938 74621
= = 104 104 30 30 000

Both probably have several errors. Terrible signal as almost always.

9736 kHz, 14-07, 0717 UTC
475 134 134 50 50 = =
_____ _____ _____ _____ _____ ____ 48105 56195 10683 17440
15231 90784 27195 56391 60154 58105 75839 71447 81057 81945
81945 84016 51769 36527 71957 37299 _____ 61759 91036 71960
81935 65735 62285 06584 78975 65735 65735 62285 65884 64495
65926 _____ 19504 57498 53263 25321 11425 65573 85___ 89446
= = 134 134 50 50 000

9736 kHz, 21-07, 0721 UTC
475 277 277 50 50 = =

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
69341 06687 58772 264__ 65030 18523 43383 69982 00828 49395
15193 97456 11026 63838 29319 43439 44571 95521 83606 16904
88199 28619 02534 88776 61689 32124 32124 97460 97___ 75438
87555 29462 67235 35452 58___ 07_34 73035 17520 83502 _____
277 277 50 50 = = 000

M12

12217/10817/9317 kHz, 2000/2020/2040 UTC

12217/10817/9317 kHz, 01-07/04-07, 2000/2020/2040 UTC
617 617 617 1 2088 181 2088 181
17654 71615 33486 57501 27431 01517 02505 10743 43884 77994
39478 97720 31892 30888 71593 09591 90370 54195 08065 16439
96903 25929 79896 38637 30276 85107 41462 32525 08992 07646
52145 97893 39598 18493 20469 97792 40592 00743 45755 10753
46744 74989 42353 22805 21771 65733 68476 38369 22470 62312
90137 39083 92410 47337 77224 44912 91592 46614 70666 31796
51880 28469 66295 31500 01016 63264 56170 60685 17736 73231
09010 98595 50707 53138 56163 93518 29060 39780 27185 99688
67555 79998 27771 98144 03288 96287 31198 83309 45205 61528
74625 03907 50323 91587 21764 06996 78753 49338 97334 84862
96143 68888 91317 76350 78122 84549 80477 32541 34493 89914
10416 36925 19407 87783 57599 59071 69049 60931 46195 42599
54527 96580 18467 00027 73505 66609 10752 63507 94433 26599
70828 03587 23512 09020 49849 34695 44881 45319 35793 17546
72776 54079 99326 22973 06012 72312 81578 72665 78014 44363
43608 00399 73855 67752 00187 92306 21333 99061 66644 51424
78466 52528 43084 73038 56402 37354 63273 83478 96523 74242
62781 93564 32862 84345 90855 12009 46581 81302 55022 21885
30734 000 000

12217/10817/9317 kHz, 15-07/19-07, 2000/2020/2040 UTC
617 617 617 1 2562 47 2562 47
29909 20894 50020 34029 29477 12322 65676 68808 62833 75089
98727 51020 29552 49413 89321 93759 15463 16005 57266 20631
92407 89611 46608 19504 61432 18068 57696 08926 62190 18395
60298 41816 91307 91487 27885 59267 02089 17991 94031 20456
69076 76505 86796 93228 36667 94333 11396 000 000

12217/10817/9317 kHz, 29-07, 2000/2020/2040 UTC
617 617 617 1 589 79 589 79
81020 43440 41352 84024 86563 83603 20241 70064 06958 38535
56141 67985 92991 60709 45842 02864 43357 24105 41023 61168
07216 18229 68170 44214 81929 45910 77933 94555 65497 66179
68496 04626 33390 90737 56217 20963 29122 46171 54625 06546
60103 77032 99877 42365 86081 39344 01057 29765 73389 38841
73569 79873 85809 12859 26560 46789 43024 84767 45329 92743
02761 43119 54816 80958 52291 49415 30023 17399 16836 85424
60992 24059 90040 16945 97583 71607 36692 81801 04218 000 000

11519/12194/13407 kHz, 1100/1120/1140 UTC

11519/12194/13407 kHz, 02-07, 1100/1120/1140 UTC
289 289 289 1 3873 56 3873 56
88413 54901 94933 14509 42902 66922 28939 66685 62224 06831
07325 43416 20603 23950 50649 73624 56974 79149 78268 78205
76700 76869 77804 40868 63463 66615 69549 28168 61915 98441
98754 68632 16652 83102 99979 07013 72071 32728 55183 55068

23427 13671 44343 02492 58991 58236 54360 78363 43476 79346
59369 53599 13225 26479 35710 11543 000 000

11519/12194/13407 kHz, 09-07, 1100/1120/1140 UTC
289 289 289 1 3398 52 3398 52
77118 23512 99415 71325 66684 96177 79869 07003 59563 18987
29998 66414 32918 49856 93576 72035 32684 41212 99487 67433
66193 58414 68665 69101 59082 28978 97736 26420 55075 10746
86510 93786 36624 72039 40863 58505 99098 08503 17766 41888
08446 72188 01277 82808 27730 04684 11930 62453 61876 64321
91069 18600 000 000

11519/12194/13407 kHz, 16-07, 1100/1120/1140 UTC
289 289 289 1 6315 55 6315 55
71635 80297 49790 42845 04283 33878 65631 42580 55883 14582
40879 59762 90389 20941 73778 87880 03474 07962 36053 37124
31659 16070 09857 74501 49352 71866 50889 65344 91875 09986
87124 37893 73511 09527 34701 51034 41243 22294 74788 45541
72185 78051 37811 41236 52193 39460 27128 34656 27659 16376
43481 15225 44789 91333 27382 000 000

11519/12194/13407 kHz, 23-07, 1100/1120/1140 UTC
289 289 289 1 9301 57 9301 57
88209 54414 02488 11326 41659 29460 35551 03301 80123 71153
92502 85921 30667 99144 63791 02985 13693 31919 11194 49199
15740 45864 84177 38273 57111 31322 71617 21168 80443 90638
76859 62077 60875 15795 87398 04010 42869 42825 35483 82030
35447 10865 55215 96649 42470 73037 83304 88219 45294 79852
95590 19746 54329 61621 60166 42345 70236 000 000

11519/12194/13407 kHz, 30-07, 1100/1120/1140 UTC
289 289 289 1 6257 55 6257 55
74053 58656 75887 76310 04905 90375 49549 02700 59740 17267
95211 73440 78608 77314 89096 23313 52525 71677 89652 76559
92122 81483 40124 83570 93304 80736 53928 11303 60635 44633
97302 49496 16914 50113 06545 54523 73043 70314 54707 57655
65620 49381 05031 18372 33019 05095 14130 28709 95997 78071
51959 56568 27977 16752 66286 000 000

12162/11566/10711 kHz, 1800/1820/1840 UTC

12162/11566/10711 kHz, 02-07, 1800/1820/1840 UTC
546 546 546 1 4272 53 47272 53
84498 02645 54406 11399 77145 31504 89085 35200 10824 82690
86281 21168 93961 01395 74999 43941 35019 59237 56140 47829
30067 66793 50902 97802 79601 46417 21515 48644 53885 90100
46414 94552 58943 79186 68338 44316 92549 81667 57913 51453
84534 59292 76780 89918 87230 76474 29937 47314 25093 54314
73947 45614 26443 000 000

12162/11566/10711 kHz, 16-07, 1800/1820/1840 UTC
546 546 546 1 3732 51 3732 51
45183 65297 96287 26915 54401 34988 21250 52055 27815 39622
37569 07738 58339 77441 90809 09426 36673 40671 80906 46074
54065 50333 75994 69904 87363 94008 18086 52158 33540 89922
25628 46900 25103 76513 37278 66553 01886 31942 57914 41104
77028 33126 82186 54015 30165 41003 80708 58556 01729 51148
92511 000 000

12162/11566/10711 kHz, 23-07, 1800/1820/1840 UTC
546 546 546 1 5172 58 5172 58
63478 53764 92857 05972 70537 63942 06386 02233 23013 01077
07787 95893 73261 67213 24567 15127 92603 02980 84267 62074

50654 65184 84268 26742 66180 83349 80087 77363 48381 56236
61088 48139 37815 42199 46728 64564 06818 21867 41137 12647
12012 39167 33006 93647 48572 19549 85782 98861 06918 77551
52806 44134 91444 30864 31559 98292 69495 66114 000 000

12162/11566/10711 kHz, 30-07, 1800/1820/1840 UTC
546 546 546 1 1592 50 1592 50
28106 31810 27929 51123 72082 35292 96732 88714 85440 94583
96540 92571 49394 97426 64381 13001 67245 98242 64267 65222
08256 95420 35229 88055 94528 74295 87528 80532 84264 13697
72980 46214 83825 24232 21865 72260 64858 79395 35072 92685
10768 80769 85600 17705 84094 66201 46922 67131 35120 31295
000 000

10767/10167/9267 kHz, 2100/2120/2140 UTC

10767/10167/9267 kHz, 05-07/06-07/12-07/13-07, 2100/2120/2140 UTC
712 712 712 1 3355 125 3355 125
01803 51028 33837 45893 47410 05455 10866 31771 36126 59188
06630 59902 85932 49371 58919 85631 66719 00316 11785 62975
70065 62036 82417 22047 50041 54438 65925 97514 56349 32124
80660 10984 36863 76315 85992 56648 16212 34946 91311 63328
10215 95175 72952 05444 84031 97706 86010 96012 52618 99131
40662 63470 65544 87544 64982 94999 12600 08084 00919 42383
53763 38768 38553 46827 14543 80345 58505 97601 19380 85703
27075 88824 27327 13622 95550 78039 27567 60490 06786 10225
80017 65924 18524 77543 89950 98871 60401 87842 70895 59018
98081 36912 75184 60252 45129 92863 32729 27459 76461 33173
20942 75630 41460 20839 38291 04457 94744 52545 98398 95379
51531 15286 52939 38583 01545 53552 38793 94196 08143 53512
55984 99417 15637 99297 86823 000 000

10767/10167/9267 kHz, 26-07/27-07, 2100/2120/2140 UTC
712 712 712 1 2239 131 2239 131
09641 31662 79266 49400 16582 20181 70357 55749 87613 52008
85418 27604 67625 98984 09349 39965 67600 55598 78077 59955
26851 16359 63906 91625 90732 30277 83538 96884 91340 59607
64040 28280 19837 60564 54964 11122 72244 93115 90584 08117
13602 32408 92645 30286 50614 08334 02577 99281 48539 99113
68785 40430 17927 77157 09681 66786 52870 17910 19098 99823
76436 97070 72249 51345 20014 66971 92899 52031 54785 76972
28425 57147 96821 83694 00561 04075 62954 63770 88080 74812
53784 96701 10395 04603 63924 69367 90011 29353 47369 85777
45251 77671 90918 94304 11617 62555 16625 05168 18282 01406
69902 27308 45818 39132 06281 19540 90049 88726 29200 10420
79034 13593 69651 55896 43991 14450 44059 97223 70473 77126
58958 80347 98470 59274 57004 89100 45372 52779 11551 81366
77939 000 000

14968/14468/13368 kHz, 1900/1920/1940 UTC

14968/14468/13368 kHz, 10-07/12-07/17-07/19-07, 1900/1920/1940 UTC
943 943 943 1 9646 113 9646 113
31728 15200 46245 18381 45240 00891 72291 14630 36631 24155
77782 16805 64384 31701 12638 47753 06146 59208 16227 80963
50694 52140 22458 92005 38050 92457 40777 28984 23931 48989
90802 06002 90563 57960 07034 93902 98365 15971 03259 35951
41813 43092 06864 88457 22252 15528 96874 45687 72027 56441
01831 34746 46691 88991 02818 95818 62735 83591 53418 11187
87436 68938 37426 60116 99203 08515 16272 66282 00617 60162
79379 92783 70575 21233 41053 24935 11410 81935 47272 38446
33934 67800 06988 45229 83170 42911 07503 15852 25981 19514
84894 71581 47771 03574 07759 34893 05951 23031 7794x 45922

67509 18687 13433 35731 49711 52622 69671 30567 70725 40684
88409 10213 23062 000 000

14968/14468/13368 kHz, 31-07, 1900/1920/1940 UTC
943 943 943 1 4362 187 4362 187 187
71125 51908 50794 41914 88210 26428 61410 46061 60770 86950
22765 05041 65574 21075 06330 52017 43006 44093 01349 10664
07166 32865 94232 56547 94996 17604 82306 71211 19993 57754
05007 96059 87491 96900 07018 76535 35820 73519 84681 26591
45955 52507 33743 73929 02363 14172 69902 08541 45618 98375
36895 01430 87734 26783 97586 19824 62213 83293 85514 58658
47433 17117 37648 43980 20119 99790 28459 91834 65305 07536
15541 43424 07051 60833 04117 99505 07482 29388 66639 07745
11333 72933 97480 22029 78348 86023 39026 79975 15632 97771
90016 06746 93520 39612 03224 02818 79157 71458 31577 61047
51126 82086 11177 30471 34023 27304 17897 00317 66364 01821
47085 64536 16020 32760 70437 52584 53352 96725 75528 17665
34316 66579 41092 95986 10510 86274 20650 55039 33058 09049
29368 20653 46403 27053 48016 54430 24782 33611 75296 77571
57767 44112 24488 47199 31811 18850 62681 62210 07206 41139
12602 22036 18973 00305 46313 65880 26818 92247 88383 69240
65936 92830 05681 88295 41033 24542 60028 98274 41625 78267
54157 87952 64450 42661 08115 53691 39517 98977 77627 61011
51016 32742 65703 23153 13843 31887 09931 000 000

11435/10598/9327 kHz, 1800/1820/1840 UTC

11435/10598/9327 kHz, 11-07, 1800/1820/1840 UTC
938 938 938 1 4938 54 4938 54
58839 95320 02608 16082 98460 7812x 19966 66599 88505 44969
70980 74769 92316 94836 33273 55109 08651 45212 93922 88912
49160 74455 56978 32567 93821 52722 91030 14473 71222 28964
75586 72200 97541 54922 04016 47273 20377 I4647 61888 42266
64300 42297 71570 37209 33554 19534 52697 83072 64498 46749
62771 07176 35722 70372 000 000

11435/10598/9327 kHz, 18-07, 1800/o1820/1840 UTC
938 938 938 1 4325 80 4325 80
02570 18679 80601 66805 42916 81670 57684 14618 83814 02538
95844 60992 65129 07799 32226 95947 89079 41480 00782 18455
47927 95464 85533 97590 07486 64929 05621 52052 66345 92304
95631 61390 99669 51951 28563 71421 30328 69817 28233 25772
43144 45309 72276 02499 06503 39433 87009 45609 35855 37029
94797 76478 00312 33338 05347 07204 33145 83009 59318 77786
76049 05631 48272 91509 06905 34453 61322 13177 79234 60803
65618 19261 13246 75008 75309 02618 23188 83033 91087 68052
000 000

11435/10598/9327 kHz, 26-07, 1800/1820/1840 UTC
938 938 938 1 2383 82 2383 82
59561 31447 96179 96151 53638 45376 55196 17237 57511 06415
25380 70739 95692 17847 67861 84058 59763 14612 05872 17312
53708 19010 43912 40872 97662 56462 70422 29945 03536 68546
54204 95389 77781 13623 04710 54154 08860 00468 40834 66414
46756 02112 31496 11057 56232 35092 65556 31514 06073 99333
40959 91997 51407 94177 17102 40551 87534 42406 98478 97375
64953 35250 13700 89063 52309 29990 92957 82068 13137 13706
75197 59294 73775 19456 70554 51596 87512 32854 84638 62579
89905 27907 000 000

16158/14858/14358 kHz, 2310/2330/2350 UTC

16158/14858/14358 kHz, 03-07/07-07, 2310/2330/2350 UTC
183 183 183 1 643 215 643 215
59084 27885 48596 52037 75731 17885 82020 07648 23950 44222
68694 60069 28446 08691 37753 94194 65703 41246 65197 33815
97685 19864 61725 96725 48390 28161 80216 20061 54126 97966
72591 22063 82187 62922 40494 46948 43113 18139 13910 04417
84815 13452 22513 77223 18831 20161 45753 10127 78101 02716
08571 23153 54969 05180 16942 52266 34592 00221 44415 04616
33102 32778 35789 77311 90939 96529 86405 50163 39505 56226
75124 21071 61291 93532 08108 74517 98620 94349 01570 33091
97843 99686 89029 95445 82009 46712 79874 30310 14793 74111
29290 21613 15739 93484 41786 00127 69443 70928 36147 70724
38615 06052 19229 00803 53743 94273 08991 91759 80971 97199
07039 08811 58695 79181 53332 09656 83646 13558 08222 25317
03294 26268 76160 29559 00322 36947 00102 18082 77919 16629
49923 62953 06135 96418 15028 28000 60061 98329 41041 73163
16328 13360 39443 10169 82617 54667 67418 20570 32480 60163
17672 31S83 43618 75312 78658 18741 16884 83118 69075 51137
66311 69845 57874 72445 94746 14751 93075 15122 62274 63792
74801 32387 73907 65165 45093 20389 44867 80366 47682 55282
06865 86345 66752 18906 88508 10378 61864 04350 72812 45678
77470 34709 46589 42008 24771 97908 91581 97375 94666 52563
20182 12743 13287 23696 28228 60763 80834 81297 02758 85062
15772 17484 42013 54220 90746 000 000

11434/10597/9326 kHz, 1800/1820/1840 UTC

11434/10597/9326 kHz, 04-07, 1800/1820/1840 UTC
938 938 938 1 9531 84 9531 84
65128 23484 49398 40273 15517 63122 67212 72001 75056 80581
16928 25362 62611 58712 84525 14858 34975 86497 59350 97993
72548 51493 31048 06518 99173 53486 06484 00426 29977 86151
82105 90532 25734 57158 00067 97939 37883 46437 67703 59049
03708 80436 36621 54404 78689 06346 30039 63825 77865 96059
49936 73005 58957 23838 22278 13635 92434 32880 41099 62030
56638 66786 42023 88904 98475 26394 99627 05453 58644 86585
76973 88537 18794 00300 94225 92110 14871 76643 37827 92826
23447 42657 22559 33916 000 000

M14

12211/10243 kHz, 01-07/02-07, 0500/0520 UTC
952 103 103 59 59 = =
91128 59398 25628 59717 62581 52481 72390 11508 67574 88417
10726 15487 44201 31274 04004 78715 53812 93060 13523 88910
16123 52990 13543 83361 22534 67845 61883 95674 38616 28153
99528 47543 31692 39840 77671 77717 84455 36069 35636 25373
80555 48936 78118 10063 73101 95720 25183 75435 72008 59372
33441 88910 11131 67920 11874 14501 81114 02507 80706
= = 103 103 59 59 00000

12211/10243 kHz, 03-07/04-07, 0500/0520 UTC
952 601 601 28 28 = =
82672 49544 73012 02521 69032 12102 83244 59166 71006 72253
18110 17622 51792 58063 53363 08780 01468 73031 46997 00119
19998 04846 51787 02167 68300 74476 29491 83265
= = 601 601 28 28
952 874 874 32 32 = =
21951 98340 83912 41162 55623 00362 68097 61286 96305 24302
91492 02110 46502 39967 64627 98763 69349 75426 64741 96901

65351 69403 41472 99856 01935 87814 43334 19811 63028 40422
44694 31401
= = 874 874 32 32 00000

12211/10243 kHz, 08-07/09-07, 0500/0520 UTC
952 387 387 60 60 = =
45206 47331 14921 38771 18045 91981 61836 98618 78296 71642
18847 10684 41150 35963 77716 26432 02195 29168 65999 90746
96371 53586 08392 67413 19139 44197 43251 40476 27027 40163
23980 39918 59771 64265 59966 65093 51224 46188 76754 04348
21217 50589 00150 74272 65567 95891 93925 27019 86422 74740
05845 99125 30119 12047 01658 00279 24745 21579 91782 65453
= = 387 387 60 60 00000

12211/10243 kHz, 10-07/11-07, 0500/0520 UTC
952 460 460 53 53 = =
96081 74214 34201 46183 18629 29885 88061 97222 03513 07702
69028 85997 89623 62246 25673 08650 99161 86918 11978 45036
56087 99938 86114 96339 92955 72250 18688 70051 94554 39496
21391 66997 51812 65275 32010 50111 24385 47845 16715 99622
35380 87475 75566 84371 46638 56637 62191 03910 88028 40198
53549 81101 39182
= = 460 460 53 53 00000

12211/10243 kHz, 12-07, 0500/0520 UTC
952 952 952 00000

12211 kHz, 15-07, 0500 UTC. Test tone. No transmission
10243 kHz, 15-07, 0520 UTC
12211/10243 kHz, 16-07, 0500/0520 UTC
952 317 317 52 52 = =
11797 76499 27750 42424 31669 01040 07505 82221 14580 29242
86959 22792 89275 38790 99336 29240 51275 32264 57409 39829
38847 10740 90267 93538 89541 50225 94238 28424 50732 48116
33905 30458 42600 31852 54160 37559 96992 46975 89233 28473
20602 66768 79531 51210 55897 90657 32918 70719 38247 23584
89289 40490
= = 317 317 52 52 00000

12211/10243 kHz, 17-07, 0500/0520 UTC
952 806 806 34 34 = =
93324 61150 97913 87121 71172 61778 93062 98195 79664 52180
96386 29507 00206 27436 98598 86158 90994 16991 14189 51899
02301 04793 00851 80017 99655 88972 76662 72991 30881 60774
33461 43108 97917 07403
= = 806 806 34 34
952 134 134 18 18 = =
53405 84821 97104 59772 30452 51046 17475 29236 22763 72247
95046 41616 40774 10342 63108 56888 27017 66239
= = 134 134 18 18 00000

12211 kHz, 18-07, 0500 UTC. Same messages as yesterday but in reverse order.
952 134 134 18 18 = =
53405 84821 97104, switched to inverted morse (1m10s), carrier only (7m), inverted morse (10s), 952 off.
"V" at 0517z

10243 kHz, 18-07, 0520 UTC
952 134 134 18 18 = =
53405 84821 97104 59772 30452 51046 17475 29236 22763 72247
95046 41616 40774 10342 63108 56888 27017 66239
= = 134 134 18 18
952 806 806 34 34 = =
93324 61150 97913 87121 71172 61778 93062 98195 79664 52180

96386 29507 00206 27436 98598 86158 90994 16991 14189 51899
02301 04793 00851 80017 99655 88972 76662 72991 30881 60774
33461 43108 97917 07403
= = 806 806 34 34 00000

12211/10243 kHz, 22-07/23-07, 0500/0520 UTC
952 786 786 54 54 = =
25581 54534 60023 46970 83607 23422 66114 25029 08719 06939
92912 02271 97019 88112 43141 05176 20253 97322 01962 00932
96257 08306 35794 85286 97016 22160 31082 70120 55244 44043
96434 87904 55441 82170 76582 55247 55247 23952 51597 62704
28858 68801 19788 83052 25917 22394 87737 15201 11052 82043
15905 05941 15752 67863
= = 786 786 54 54 00000

12211/10243 kHz, 24-07/25-07, 0500/0520 UTC
25-07, 0500z: Inverted morse after group 8. Restart.
952 403 403 26 26 = =
31887 25384 29484 38462 77717 30712 28716 56089 65675 32007
54712 43730 92456 10271 75148 28109 08464 76381 13724 49287
96781 34710 11999 88580 06549 18712
= = 403 403 26 26
952 761 761 28 28
61521 22573 90048 86973 36644 71759 13904 46148 83465 17944
91819 03814 77744 46727 60866 65603 24084 38331 83156 22146
50898 86167 57468 00893 38287 79964 53607 31709
= = 761 761 28 28 00000

12211 kHz, 26-07, 0508 UTC 925 925 925 00000 (late start)
12211 kHz, 26-07, 0520 UTC 925 925 925 00000 (wrong freq)

12211/10243 kHz, 29-07, 0500/0520 UTC
Note: this message was repeated as S06 message in the S06 slots on 30 July
952 483 483 50 50 = =
99560 55584 09386 31096 49684 50361 05129 24480 16789 21077
06053 22777 61327 32372 22260 85945 05335 80635 41715 58970
74491 73045 69233 85526 60196 06717 65948 24089 93858 08878
93959 89914 50572 24026 95842 71349 24385 58987 63712 93882
42325 21828 77521 30394 09390 15547 17283 81030 01685 72497
= = 483 483 50 50 00000

12211 kHz, 30-07, 0500 UTC
10243 kHz, 30-07, 0520 UTC. 952 (R4m) off
Note: this is the repeat of S06 on 29 July
952 192 192 50 50 = =
92350 00308 04659 29744 99295 29987 34771 23546 57838 37068
75507 21363 54979 50082 12174 37971 80893 76320 38333 01724
54947 75683 43797 88205 62757 89701 78478 33290 90213 55422
40574 67778 65420 58843 62494 40806 44477 07590 92985 24207
02051 27515 98881 15019 12670 12912 34924 78329 33675 85027
= = 192 192 50 50 00000

12211 kHz, 31-07, 0500 UTC. Repeat of yesterday's message with a different 3-digit group. Also a reepat on 1 August
10243 kHz, 31-07, 0520 UTC. Not monitored
952 170 170 50 50 = =
92350 00308 04659 29744 99295 29987 34771 23546 57838 37068
75507 21363 54979 50082 12174 37971 80893 76320 38333 01724
54947 75683 43797 88205 62757 89701 78478 33290 90213 55422
40574 67778 65420 58843 62494 40806 44477 07590 92985 24207
02051 27515 98881 15019 12670 12912 34924 78329 33675 85027
= = 192 192 50 50 00000

UM04 - PROMRCh

4735 kHz, 01-07, 0700 UTC
VVVVV PROMRCh = 01 07 =
1000 0860 0890 0980 1340
1200 0900 0920 1010 1390
1400 0900 0930 1020 1390
1600 0880 0900 1000 1340
1800 0820 0850 0950 1280
2000 0900 0920 1020 1340
2200 0890 0910 0990 1300
0000 0850 0870 0940 1190
0200 0790 0810 0870 1110
0400 0660 0670 0740 0950
0600 0750 0770 0850 1130
0800 0850 0880 0980 1320
= ABV
VVVVV PROMRCh = 01 07 =
1000 0860 0890 0980 1340
1200 0900 0920 1010 1390
1400 0900 0930 1020 1390
1600 0880 0900 1000 1340
1800 0820 0850 0950 1280
2000 0900 0920 1020 1340
2200 0890 0910 0990 1300
0000 0850 0870 0940 1190
0200 0790 0810 0870 1110
0400 0660 0670 0740 0950
0600 0750 0770 0850 1130
0800 0850 0880 0980 1320
= AR

4735 kHz, 02-07, 0700 UTC
VVV VVV PROMRCh = 02 07 =
1000 0860 0890 0980 1350
1200 0900 0920 1010 1400
1400 0900 0930 1020 1400
1600 0880 0900 1000 1330
1800 0830 0850 0950 1280
2000 0900 0930 1020 1340
2200 0890 0910 1000 1300
0000 0850 0860 0940 1190
0200 0790 0800 0870 1110
0400 0660 0670 0740 0950
0600 0740 0760 0850 1120
0800 0840 0870 0980 1320
= ABV
VVV VVV PROMRCh = 02 07 =
1000 0860 0890 0980 1350
1200 0900 0920 1010 1400
1400 0900 0930 1020 1400
1600 0880 0900 1000 1330
1800 0830 0850 0950 1280
2000 0900 0930 1020 1340
2200 0890 0910 1000 1300
0000 0850 0860 0940 1190
0200 0790 0800 0870 1110
0400 0660 0670 0740 0950
0600 0740 0760 0850 1120
0800 0840 0870 0980 1320
= AR

4735 kHz, 03-07, 0700 UTC
VVV VVV PROMRCh = 03 07 =
1000 0850 0880 0970 1350
1200 0890 0910 1010 1400
1400 0900 0920 1010 1400
1600 0870 0900 0990 1330
1800 0820 0850 0940 1280
2000 0890 0920 1010 1330
2200 0890 0910 1000 1290
0000 0850 0870 0930 1190
0200 0780 0800 0870 1100
0400 0650 0670 0730 0950
0600 0730 0750 0840 1120
0800 0830 0860 0960 1300
= ABV
VVV VVV PROMRCh = 03 07 =
1000 0850 0880 0970 1350
1200 0890 0910 1010 1400
1400 0900 0920 1010 1400
1600 0870 0900 0990 1330
1800 0820 0850 0940 1280
2000 0890 0920 1010 1330
2200 0890 0910 1000 1290
0000 0850 0870 0930 1190
0200 0780 0800 0870 1100
0400 0650 0670 0730 0950
0600 0730 0750 0840 1120
0800 0830 0860 0960 1300
= AR

4735 kHz, 04-07, 0700 UTC
VVV VVV PROMRCh = 04 07 =
1000 0850 0830 0970 1350
1200 0890 0920 1010 1400
1400 0900 0920 1020 1400
1600 0870 0900 1000 1330
1800 0820 0850 0940 1280
2000 0890 0920 1010 1330
2200 0890 0910 1000 1290
0000 0850 0870 0900 1190
0200 0780 0800 0870 1100
0400 0650 0670 0730 0950
0600 0730 0750 0330 1110
0800 0830 0850 0960 1300
= ABV
VVV VVV PROMRCh = 04 07 =
1000 0850 0830 0970 1350
1200 0890 0920 1010 1400
1400 0900 0920 1020 1400
1600 0870 0900 1000 1330
1800 0820 0850 0940 1280
2000 0890 0920 1010 1330
2200 0890 0910 1000 1290
0000 0850 0870 0900 1190
0200 0780 0800 0870 1100
0400 0650 0670 0730 0950
0600 0730 0750 0330 1110
0800 0830 0850 0960 1300
= AR

4735 kHz, 05-07, 0700 UTC
VVV VVV PROMRCh = 05 07 =
1000 0850 0880 0970 1350
1200 0890 0920 1010 1410
1400 0890 0920 1010 1400
1600 0870 0890 0990 1320
1800 0820 0850 0940 1270
2000 08IE 0910 1010 1330
2200 0890 0910 1000 1290
0000 0850 0870 0930 1190
0200 0790 0800 0870 1100
0400 0650 0670 0730 0950
0600 0730 0750 0830 1110
0800 0830 0850 0960 1300
= ABV
VVV VVV PROMRCh = 05 07 =
1000 0850 0880 0970 1350
1200 0890 0920 1010 1410
1400 0890 0920 1010 1400
1600 0870 0890 0990 1320
1800 0820 0850 0940 1270
2000 08IE 0910 1010 1330
2200 0890 0910 1000 1290
0000 0850 0870 0930 1190
0200 0790 0800 0870 1100
0400 0650 0670 0730 0950
0600 0730 0750 0830 1110
0800 0830 0850 0960 1300
= AR

4735 kHz, 06-07, 0700 UTC
VVV VVV PROMRCh = 06 07 =
1000 0860 0880 0980 1350
1200 0900 0920 1010 1400
1400 0900 0920 1010 1400
1600 0870 0900 0990 1320
1800 0820 0840 0940 1270
2000 0890 0920 1010 1320
2200 0890 0910 1000 1290
0000 0850 0870 0930 1190
0200 0780 0800 0860 1090
0400 0650 0670 0730 0950
0600 0730 0750 0830 1110
0800 0830 0860 0960 1300
= ABV
VVV VVV PROMRCh = 06 07 =
1000 0860 0880 0980 1350
1200 0900 0920 1010 1400
1400 0900 0920 1010 1400
1600 0870 0900 0990 1320
1800 0820 0840 0940 1270
2000 0890 0920 1010 1320
2200 0890 0910 1000 1290
0000 0850 0870 0930 1190
0200 0780 0800 0860 1090
0400 0650 0670 0730 0950
0600 0730 0750 0830 1110
0800 0830 0860 0960 1300
= AR

4735 kHz, 07-07, 0700 UTC
VVVVV PROMRCh = 07 07 =
1000 0870 0890 0980 1350
1200 0900 0930 1010 1400
1400 0900 0920 1020 1400
1600 0870 0900 0990 1330
1800 0820 0850 0950 1280
2000 0890 0920 1010 1330
2200 0900 0920 1000 1290
0000 0850 0870 0940 1180
0200 0790 0800 0870 1100
0400 0650 0670 0730 0950
0600 0730 0750 0830 1110
0800 0840 0870 0970 1310
= ABV =
VVVVV PROMRCh = 07 07 =
1000 0870 0890 0980 1350
1200 0900 0930 1010 1400
1400 0900 0920 1020 1400
1600 0870 0900 0990 1330
1800 0820 0850 0950 1280
2000 0890 0920 1010 1330
2200 0900 0920 1000 1290
0000 0850 0870 0940 1180
0200 0790 0800 0870 1100
0400 0650 0670 0730 0950
0600 0730 0750 0830 1110
0800 0840 0870 0970 1310
= AR

4735 kHZ, 08-07, 0700 UTC
VVV VVV PROMRCh = 08 07 =
1000 0870 0890 0990 1350
1200 0910 0930 1020 1400
1400 0900 0930 1020 1400
1600 0870 0900 0990 1320
1800 0820 0850 0950 1270
2000 0890 0920 1010 1320
2200 0890 0910 0990 1290
0000 0850 0870 0940 1180
0200 0790 0810 0870 1100
0400 0660 0670 0740 0950
0600 0730 0750 0830 1110
0800 0840 0870 0970 1310
= ABV
VVV VVV PROMRCh = 08 07 =
1000 0870 0890 0990 1350
1200 0910 0930 1020 1400
1400 0900 0930 1020 1400
1600 0870 0900 0990 1320
1800 0820 0850 0950 1270
2000 0890 0920 1010 1320
2200 0890 0910 0990 1290
0000 0850 0870 0940 1180
0200 0790 0810 0870 1100
0400 0660 0670 0740 0950
0600 0730 0750 0830 1110
0800 0840 0870 0970 1310
= AR

4735 kHz, 09-07, 0700 UTC
VVV VVV PROMRCh = 09 07 =
1000 0880 0900 1000 1350
1200 0920 0940 1030 1400
1400 0910 0940 1030 1400
1600 0880 0910 1000 1330
1800 0830 0860 0950 1280
2000 0900 0920 1010 1330
2200 0900 0920 1000 1290
0000 0850 0870 0930 1170
0200 0790 0800 0870 1100
0400 0660 0670 0730 0950
0600 0730 0750 0830 1110
0800 0850 0880 0980 1320
= ABV
VVV VVV PROMRCh = 09 07 =
1000 0880 0900 1000 1350
1200 0920 0940 1030 1400
1400 0910 0940 1030 1400
1600 0880 0910 1000 1330
1800 0830 0860 0950 1280
2000 0900 0920 1010 1330
2200 0900 0920 1000 1290
0000 0850 0870 0930 1170
0200 0790 0800 0870 1100
0400 0660 0670 0730 0950
0600 0730 0750 0830 1110
0800 0850 0880 0980 1320
= AR

4735 kHz, 10-07, 0700 UTC
VVVVV PROMRCh = 10 07 =
1000 0880 0910 1000 1350
1200 0920 0940 1030 1400
1400 0910 0940 1030 1400
1600 0880 0910 1000 1330
1800 0830 0850 0950 1280
2000 0890 0920 1010 1320
2200 0900 0920 1000 1280
0000 0860 0870 0940 1180
0200 0790 0810 0870 1100
0400 0660 0680 0740 0960
0600 0730 0750 0830 1110
0800 0850 0870 0970 1310
= ABV =
VVVVV PROMRCh = 10 07 =
1000 0880 0910 1000 1350
1200 0920 0940 1030 1400
1400 0910 0940 1030 1400
1600 0880 0910 1000 1330
1800 0830 0850 0950 1280
2000 0890 0920 1010 1320
2200 0900 0920 1000 1280
0000 0860 0870 0940 1180
0200 0790 0810 0870 1100
0400 0660 0680 0740 0960
0600 0730 0750 0830 1110
0800 0850 0870 0970 1310
= AR

4735 kHz, 11-07, 0700 UTC
VVV VVV PROMRCh = 11 07 =
1000 0880 0910 1000 1350
1200 0920 0940 1030 1400
1400 0910 0940 1030 1390
1600 0880 0910 1000 1330
1800 0830 0850 0950 1270
2000 0890 0920 1010 1320
2200 0890 0910 0990 1280
0000 0850 0870 0930 1180
0200 0790 0810 0870 1100
0400 0660 0680 0740 0950
0600 0720 0750 0830 1110
0800 0840 0870 0970 1310
= ABV
VVV VVV PROMRCh = 11 07 =
1000 0880 0910 1000 1350
1200 0920 0940 1030 1400
1400 0910 0940 1030 1390
1600 0880 0910 1000 1330
1800 0830 0850 0950 1270
2000 0890 0920 1010 1320
2200 0890 0910 0990 1280
0000 0850 0870 0930 1180
0200 0790 0810 0870 1100
0400 0660 0680 0740 0950
0600 0720 0750 0830 1110
0800 0840 0870 0970 1310
= AR

4735 kHz, 12-07, 0700 UTC
VVV VVV PROMRCh = 12 07 =
1000 0880 0900 0990 1350
1200 0920 0940 1030 1400
1400 0920 0940 1030 1390
1600 0890 0910 1000 1320
1800 0830 0850 0950 1270
2000 0890 0910 1010 1320
2200 0900 0910 1000 1280
0000 0850 0870 0930 1180
0200 0790 0810 0870 1100
0400 0660 0680 0740 0950
0600 0720 0750 0830 1100
0800 0850 0870 0970 1320
= ABV
VVV VVV PROMRCh = 12 07 =
1000 0880 0900 0990 1350
1200 0920 0940 1030 1400
1400 0920 0940 1030 1390
1600 0890 0910 1000 1320
1800 0830 0850 0950 1270
2000 0890 0910 1010 1320
2200 0900 0910 1000 1280
0000 0850 0870 0930 1180
0200 0790 0810 0870 1100
0400 0660 0680 0740 0950
0600 0720 0750 0830 1100
0800 0850 0870 0970 1320
= AR

4735 kHz, 13-07, 0700 UTC
VVV VVV PROMRCh = 13 07 =
1000 0880 0910 1000 1350
1200 0920 0940 1030 1400
1400 0920 0940 1030 1390
1600 0880 0910 1000 1320
1800 0830 0850 0950 1270
2000 0890 0920 1010 1320
2200 0890 0910 0990 1280
0000 0850 0870 0930 1170
0200 0790 0810 0870 1090
0400 0660 0680 0740 0960
0600 0730 0750 0830 1110
0800 0850 0870 0970 1310
= ABV
VVV VVV PROMRCh = 13 07 =
1000 0880 0910 1000 1350
1200 0920 0940 1030 1400
1400 0920 0940 1030 1390
1600 0880 0910 1000 1320
1800 0830 0850 0950 1270
2000 0890 0920 1010 1320
2200 0890 0910 0990 1280
0000 0850 0870 0930 1170
0200 0790 0810 0870 1090
0400 0660 0680 0740 0960
0600 0730 0750 0830 1110
0800 0850 0870 0970 1310
= AR

4735 kHz, 14-07, 0700 UTC
VVV VVV PROMRCh = 14 07 =
1000 0880 0900 0990 1350
1200 0910 0940 1030 1400
1400 0910 0930 1020 1390
1600 0840 0900 0990 1320
1800 0830 0850 0950 1270
2000 0810 0920 1000 1310
2200 0890 0910 0990 1270
0000 0850 0870 0930 1170
0200 0790 0810 0870 1120
0400 0660 0680 07 0950
0600 0720 0750 0830 1110
0800 0840 0870 0970 1300
= ABV
VVV VVV PROMRCh = 14 07 =
1000 0880 0900 0990 1350
1200 0910 0940 1030 1400
1400 0910 0930 1020 1390
1600 0840 0900 0990 1320
1800 0830 0850 0950 1270
2000 0810 0920 1000 1310
2200 0890 0910 0990 1270
0000 0850 0870 0930 1170
0200 0790 0810 0870 1120
0400 0660 0680 07 0950
0600 0720 0750 0830 1110
0800 0840 0870 0970 1300
= AR

4735 kHz, 15-07, 0700 UTC
VVVVV PROMRCh = 15 07 =
1000 0880 0900 1000 1350
1200 0920 0940 1030 1400
1400 0910 0930 1020 1390
1600 0880 0900 1000 1320
1800 0830 0850 0950 1270
2000 0890 0920 1000 1310
2200 0890 0910 0990 1270
0000 0850 0870 0930 1170
0200 0790 0810 0870 1090
0400 0660 0680 0740 0960
0600 0720 0740 0820 1100
0800 0840 0870 0970 1310
= ABV =
VVVVV PROMRCh = 15 07 =
1000 0880 0900 1000 1350
1200 0920 0940 1030 1400
1400 0910 0930 1020 1390
1600 0880 0900 1000 1320
1800 0830 0850 0950 1270
2000 0890 0920 1000 1310
2200 0890 0910 0990 1270
0000 0850 0870 0930 1170
0200 0790 0810 0870 1090
0400 0660 0680 0740 0960
0600 0720 0740 0820 1100
0800 0840 0870 0970 1310
= AR

4735 kHz, 16-07, 0700 UTC
VVV VVV PROMRCh = 16 07 =
1000 0870 0890 0990 1350
1200 0910 0930 1020 1400
1400 0900 0930 1010 1390
1600 0880 0900 0990 1310
1800 0830 0860 0950 1270
2000 0890 0910 1000 1300
2200 0890 0910 0990 1260
0000 0850 0870 0930 1160
0200 0800 0810 0870 1090
0400 0670 0680 0740 0950
0600 0720 0740 0830 1100
0800 0840 0870 0970 1310
= ABV
VVV VVV PROMRCh = 16 07 =
1000 0870 0890 0990 1350
1200 0910 0930 1020 1400
1400 0900 0930 1010 1390
1600 0880 0900 0990 1310
1800 0830 0860 0950 1270
2000 0890 0910 1000 1300
2200 0890 0910 0990 1260
0000 0850 0870 0930 1160
0200 0800 0810 0870 1090
0400 0670 0680 0740 0950
0600 0720 0740 0830 1100
0800 0840 0870 0970 1310
= AR

4735 kHz, 18-07, 0700 UTC
VVV VVV PROMRCh = 18 07 =
1000 0880 0900 0990 1350
1200 0920 0940 1030 1400
1400 0910 0930 1020 1390
1600 0880 0910 1000 1310
1800 0840 0860 0950 1260
2000 0890 0920 1000 1310
2200 0890 0910 0990 1260
0000 0860 0870 0940 1170
0200 0800 0810 0870 1090
0400 0670 0680 0740 0960
0600 0720 0740 0820 1100
0800 0850 0880 0970 1310
= ABV
VVV VVV PROMRCh = 18 07 =
1000 0880 0900 0990 1350
1200 0920 0940 1030 1400
1400 0910 0930 1020 1390
1600 0880 0910 1000 1310
1800 0840 0860 0950 1260
2000 0890 0920 1000 1310
2200 0890 0910 0990 1260
0000 0860 0870 0940 1170
0200 0800 0810 0870 1090
0400 0670 0680 0740 0960
0600 0720 0740 0820 1100
0800 0850 0880 0970 1310
= AR

4735 kHz, 19-07, 0700 UTC
VVV VVV PROMRCh = 19 07 =
1000 0880 0910 1000 1350
1200 0930 0950 1030 1400
1400 0910 0930 1020 1390
1600 0880 0910 1000 1310
1800 0840 0860 0960 1270
2000 0900 0920 1010 1310
2200 0900 0910 0990 1270
0000 0860 0870 0930 1160
0200 0800 0820 0870 1090
0400 0670 0690 0750 0960
0600 0720 0750 0830 1110
0800 0860 0880 0980 1320
= ABV =
VVV VVV PROMRCh = 19 07 =
1000 0880 0910 1000 1350
1200 0930 0950 1030 1400
1400 0910 0930 1020 1390
1600 0880 0910 1000 1310
1800 0840 0860 0960 1270
2000 0900 0920 1010 1310
2200 0900 0910 0990 1270
0000 0860 0870 0930 1160
0200 0800 0820 0870 1090
0400 0670 0690 0750 0960
0600 0720 0750 0830 1110
0800 0860 0880 0980 1320
= AR

4735 kHz, 20-07, 0700 UTC
VVV VVV PROMRCh = 20 07 =
1000 0890 0910 1000 1350
1200 0930 0950 1040 1400
1400 0920 0940 1020 1390
1600 0890 0910 1000 1310
1800 0840 0860 0960 1270
2000 0900 0920 1010 1310
2200 0900 0910 0990 1260
0000 0860 0880 0940 1160
0200 0810 0820 0840 1100
0400 0670 0690 0750 0960
0600 0730 0750 0830 1110
0800 0860 0890 0990 1330
= ABV
VVV VVV PROMRCh = 20 07 =
1000 0890 0910 1000 1350
1200 0930 0950 1040 1400
1400 0920 0940 1020 1390
1600 0890 0910 1000 1310
1800 0840 0860 0960 1270
2000 0900 0920 1010 1310
2200 0900 0910 0990 1260
0000 0860 0880 0940 1160
0200 0810 0820 0840 1100
0400 0670 0690 0750 0960
0600 0730 0750 0830 1110
0800 0860 0890 0990 1330
= AR

4735 kHz. 21-07, 0700 UTC
VVV VVV PROMRCh = 21 07 =
1000 0900 0920 1000 1350
1200 0940 0960 1040 0139
1600 0890 0910 1000 1300
1800 0840 0870 0960 1270
2000 0900 0920 1000 1310
2200 0900 0910 0990 1260
0400 0860 0880 0940 1160
0200 0810 0820 0880 1100
0400 0670 0690 0750 0960
0600 0730 0750 0830 1110
0800 0870 0900 1000 1330
= ABV =
VVV VVV PROMRCh = 21 07 =
1000 0900 0920 1000 1350
1200 0940 0960 1040 0139
1600 0890 0910 1000 1300
1800 0840 0870 0960 1270
2000 0900 0920 1000 1310
2200 0900 0910 0990 1260
0400 0860 0880 0940 1160
0200 0810 0820 0880 1100
0400 0670 0690 0750 0960
0600 0730 0750 0830 1110
0800 0870 0900 1000 1330
= AR

4735 kHz, 22-07, 0700 UTC
VVV VVV PROMRCh = 22 07 =
1000 0900 0930 1010 1350
1200 0950 0970 1050 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1310
1800 0840 0870 0960 1270
2000 0900 0920 1010 1810
2200 0900 0910 0990 1260
0000 0870 0880 0940 1160
0200 0810 0820 0890 1100
0400 0680 0690 0750 0970
0600 0740 0760 0840 1120
0800 0880 0910 1010 1340
= ABV =
VVV VVV PROMRCh = 22 07 =
1000 0900 0930 1010 1350
1200 0950 094 EEEEEEE
1200 0950 0970 1050 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1310
1800 0840 0870 0960 1270
2000 0900 0920 1010 1810
2200 0900 0910 0990 1260
0000 0870 0880 0940 1160
0200 0810 0820 0890 1100
0400 0680 0690 0750 0970
0600 0740 0760 0840 1120
0800 0880 0910 1010 1340
= AR

4735 kHz, 23-07, 0700 UTC
VVVVVV 23NO 00 = N SEEEE 0
VVVVVVV PROMRCh = 2307 =
1000 0900 0930 =
1000 0900 0920 1010 1350
1200 0950 0970
1200 0950 0970 1050 1410
1400 0930 0950 1030 1390
1600 0890 0910 1000 1310
1800 0840 0870 0960 1270
2000 0900 0920 1010 1310
2200 0900 0920 0990 1260
0000 0870 0880 0940 1160
0200 0810 0830 0890 1110
0400 0680 0700 0750 0970
0600 0740 0750 0850 1120
0800 0880 0910 1010 1350
= ABV =
VVVVVV PROMRCh = 23 07 =
1000 0900 0920 1010 1350
1200 0950 0970
1200 0950 0970 1050 1410
1400 0930 0950 1030 1390
2000 1600 18NR =
1600 0890 0910 1000 1310
1800 0840 0870 0960 1270
2000 0900 0920 1010 1310
2200 0900 0920 01 EEEEEE =
222 =
2200 0900 0920 OMR =
2200 0 0P 0 =
2200
2200 0900 0920 0990 1260
0000 0870 0880 0940 1160
0200 0810 0830 0890 1110
0400 0680 0700 0750 0970
0600 0740 0750 0850 1120
0800 0880 0910 1010 1350
= AR

4735 kHz,.24-07, 0700 UTC
VVV VVV PROMRCh = 24 07 =
1000 0090 0920 1010 1450
1200 0950 0970 1050 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1310
1800 0840 0870 0960 1370
2000 0900 0920 1010 1310
2200 0900 0910 0990 1260
0000 0860 0880 0940 1160
0200 0810 0830 0890 1100
0400 0680 0700 0750 0970
0600 0740 0760 0840 1120
0800 0780 0910 1000 1340
= ABV
VVV VVV PROMRCh = 24 07 =
1000 0090 0920 1010 1450
1200 0950 0970 1050 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1310
1800 0840 0870 0960 1370
2000 0900 0920 1010 1310
2200 0900 0910 0990 1260
0000 0860 0880 0940 1160
0200 0810 0830 0890 1100
0400 0680 0700 0750 0970
0600 0740 0760 0840 1120
0800 0780 0910 1000 1340
= AR

4735 kHz, 25-07, 0700 UTC
VVV VVV PROMRCh = 25 07 =
1000 0890 0920 1000 1350
1200 0940 0960 1040 1400
1400 0920 0940 1030 1390
1600 0890 0910 1000 1310
1800 0840 0860 0950 1270
2000 0900 0920 1000 1310
2200 0890 0910 0990 1260
0000 0860 0880 0930 1150
0200 0820 0830 0890 1110
0400 0680 0700 0750 0970
0600 0730 0750 0840 1110
0800 0870 0900 1000 1330
= ABV
VVV VVV PROMRCh = 25 07 =
1000 0890 0920 1000 1350
1200 0940 0960 1040 1400
1400 0920 0940 1030 1390
1600 0890 0910 1000 1310
1800 0840 0860 0950 1270
2000 0900 0920 1000 1310
2200 0890 0910 0990 1260
0000 0860 0880 0930 1150
0200 0820 0830 0890 1110
0400 0680 0700 0750 0970
0600 0730 0750 0840 1110
0800 0870 0900 1000 1330
= AR

4735 kHz, 26-07, 0700 UTC
VVV VVV PROMRCh = 26 07 =
1000 0890 0920 1000 1350
1200 0940 0960 1040 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1300
1800 0840 0860 0950 1270
2000 0900 0920 1010 1310
2200 0890 0910 0990 1260
0000 0860 0880 0940 1160
0200 0810 0820 0890 1100
0400 0680 0690 0750 0970
0600 0730 0750 0840 1110
0800 0870 0900 0990 1330
= ABV
VVV VVV PROMRCh = 26 07 =
1000 0890 0920 1000 1350
1200 0940 0960 1040 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1300
1800 0840 0860 0950 1270
2000 0900 0920 1010 1310
2200 0890 0910 0990 1260
0000 0860 0880 0940 1160
0200 0810 0820 0890 1100
0400 0680 0690 0750 0970
0600 0730 0750 0840 1110
0800 0870 0900 0990 1330
= AR

4735 kHz, 27-07, 0700 UTC
VVV VVV PROMRCh = 27 07 =
1000 0890 0920 1000 1350
1200 0940 0960 1040 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1300
1800 0840 0860 0950 1270
2000 0900 0920 1010 1310
2200 0890 0910 0990 1260
0000 0860 0880 0940 1160
0200 0810 0820 0890 1100
0400 0680 0690 0750 0970
0600 0730 0750 0840 1110
0800 0870 0900 0990 1330
= ABV =
VVV VVV PROMRCh = 27 07 =
1000 0890 0920 1000 1350
1200 0940 0960 1040 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1300
1800 0840 0860 0950 1270
2000 0900 0920 1010 1310
2200 0890 0910 0990 1260
0000 0860 0880 0940 1160
0200 0810 0820 0890 1100
0400 0680 0690 0750 0970
0600 0730 0750 0840 1110
0800 0870 0900 0990 1330
= AR

4735 kHz, 28-07, 0700 UTC
VVVVV PROMRCh = 2807 =
1000 0890 0910 1000 1350
1200 0930 0950 1030 1400
1400 0930 0950 1030 1390
1600 0990 0920 1000 1310
1800 0840 0870 0960 1270
2000 0900 0920 0000 1300
2200 0890 0910 0980 1250
0000 0860 0870 0930 1150
0200 0810 0830 0880 1100
0400 0670 0690 0750 1060
0600 0720 0740 0830 1010
0800 0860 0890 0980 1320
= ABV
VVVVV PROMRCh = 2807 =
1000 0890 0910 1000 1350
1200 0930 0950 1030 1400
1400 0930 0950 1030 1390
1600 0990 0920 1000 1310
1800 0840 0870 0960 1270
2000 0900 0920 0000 1300
2200 0890 0910 0980 1250
0000 0860 0870 0930 1150
0200 0810 0830 0880 1100
0400 0670 0690 0750 1060
0600 0720 0740 0830 1010
0800 0860 0890 0980 1320
= AR

4735 kHz, 29-07, 0700 UTC
VVV VVV PROMRCh = 29 07 =
1000 0880 0910 0990 1350
1200 0930 0950 1040 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1310
1800 0840 0860 0950 1270
2000 0900 0920 1010 1300
2200 0890 0910 0980 1250
0000 0850 0870 0930 1150
0200 0810 0820 0880 1100
0400 0670 0680 0740 0950
0600 0720 0740 0820 1100
0800 0860 0880 0980 1320
= ABV
VVV VVV PROMRCh = 29 07 =
1000 0880 0910 0990 1350
1200 0930 0950 1040 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1310
1800 0840 0860 0950 1270
2000 0900 0920 1010 1300
2200 0890 0910 0980 1250
0000 0850 0870 0930 1150
0200 0810 0820 0880 1100
0400 0670 0680 0740 0950
0600 0720 0740 0820 1100
0800 0860 0880 0980 1320
= AR

4735 kHz, 30-07, 0700 UTC
VVVVV PROMRCh = 30 07 =
1000 0890 0910 1000 1350
1200 0940 0960 1040 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1300
1800 0840 0860 0950 1260
2000 0900 0920 1010 1300
2200 0890 0910 0980 1250
0000 0850 0860 0920 1150
0200 0800 0820 0870 1090
0400 0670 0680 0740 0950
0600 0720 0740 0820 1100
0800 0860 0890 0980 1320
= ABV
PROMRCh = 30 07 =
1000 0890 0910 1000 1350
1200 0940 0960 1040 1400
1400 0930 0950 1030 1390
1600 0890 0910 1000 1300
1800 0840 0860 0950 1260
2000 0900 0920 1010 1300
2200 0890 0910 0980 1250
0000 0850 0860 0920 1150
0200 0800 0820 0870 1090
0400 0670 0680 0740 0950
0600 0720 0740 0820 1100
0800 0860 0890 0980 1320
= AG AR

4735 kHz, 31-07, 0700 UTC
VVV VVV PROMRCh = 31 07 =
Barely audible. Unreadable.

UM05

5345.8 kHz. Excerpts from the daily traffic. The station still skips accented letters.

01-07, 0510 UTC	Poulet (R), Lac (R), etc.
02-07, 0513 UTC	Sousmarin (R), Aimer (R), etc.
03-07, 0451 UTC	Sentiment (R), Pharmacie (R), Bus (R), etc.
04-07, 0459 UTC	Refrigerateur (R), Poids (R), etc.
05-07, 0503 UTC	Servette (R), Evaluation (R), Soleil (R), etc.
06-07, 0515 UTC	The (R), 4 (R), etc.
07-07, 0547 UTC	I (R), Mois (R), etc.
08-07, 0512 UTC	Decouverte (R), Savon (R), etc.
09-07, 0502 UTC	Sante (R), Bureau (R), Mot (R), etc.
10-07, 0525 UTC	Exploration (R), Experience (R), Cinema (R), etc.
10-07, 2106 UTC	Nuit (R), Koala (R), Depart (R), 1 (R), etc.
11-07, 0753 UTC	Sculpture (R), Neige (R), etc.
12-07, 0444 UTC	Detruire (R), Argument (R), R (R), etc.
13-07, 0642 UTC	Aimer (R), Attraper (R), Idee (R), etc.
14-07, 0533 UTC	Conversation (R), 8 (R), etc.
15-07, 0424 UTC	Lac (R), Passager (R), etc.
16-07, 0605 UTC	K (R), Amer (R), etc.
17-07, 0439 UTC	Bibliotheque (R), Tasse (R),
18-07, 0504 UTC	Conversation (R), Annee (R),
19-07, 0503 UTC	Takahe (R), Merle (R), etc.
20-07, 0523 UTC	Casher (R), Distance (R), etc.
21-07, 0529 UTC	Neige (R), Araignee (R), Oiseau (R), etc.
22-07, 0520 UTC	1 (R), etc.
23-07, 0452 UTC	Poulet (R), Htel (R), etc.
24-07, 0434 UTC	Recreation (R), Chaussures (R), etc.
25-07, 0504 UTC	Volcan (R), Wallaby (R), etc.
26-07, 0527 UTC	K (R), Riviere (R), etc.
27-07, 0551 UTC	8 (R), Bague (R), etc.
28-07, 0530 UTC	Natation (R), Chaussures (R), Soir (R), etc.
29-07, 0434 UTC	Parapluie (R), G (R), Mardi (R), etc.
30-07, 0459 UTC	Credit (R), Mars (R), etc.
31-07, 0603 UTC	Lampe (R), Evaluation (R), Mouvement (R), etc.

UM06

UM06 is a ew designator for this strange morse station. See N&O 315 pages 105-113 for more information and old logs.

The station was first reported in December 2023. Disapeared in January 2024 and was found again in June 2024.
TDoA readings show Vernon as possible transmitter site.

7542 kHz, 10-07, 2103 UTC, i.p.
22222 (R)
TUORS RTSMA UKEMO BDTOP XKOCE RTSMA
55555 (R)
XKOCE BDTOP XKOCE BDTOP RTSMA BDTOP BDTOP BDTOP
55555 (R)
RTSMA RTSMA RTSMA XKOCE RTSMA
22222 (R)
UKEMO RTSMA RTSMA TUORS XKOCE
00000 (R)
BDTOP TUORS TUORS XKOCE TUORS BDTOP
22222 (R)
RTSMA RTSMA UKOCE (faded to nil)

F01

14829/12214/12214 kHz, 03-07, 1840/1850/1900 UTC
00000 +++++ +++++

Pacific schedules

13370 kHz, 01-07, 0230 UTC
11538 kHz, 01-07, 0242 UTC. Weak and -0.1kHz off, no decode
10614 kHz, 01-07, 0250 UTC. Wrong 1000Hz shift
13370 kHz, 02-07, 0230 UTC
11538 kHz, 02-07, 0245 UTC. No decode

_____ _____ _____ _____ _____ _____ 33412 73342 99449 56608
72313 09427 85764 97401 53249 _____ _____ _____ _____ _____
_____ 48976 67192 47207 _____ _____ _____ 53251 44293 15826
85802 76507 53559 79716 56335 00248 _____ _____ _____ _____
_____ _____ 48537 33895 65036 89575 16926 04305 _____ _____
_____ 48976 67192 47207 _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ 83031 60770 97831 _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
14997 28573 89779 _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ 29059 60324 79048 _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ 91092 38960 37243 12257
74801 97172 _____ _____ _____ _____ _____ _____ 90199 46291
51327 _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ 51994 35034 13390 _____ _____
_____ 58204 00700 97868 _____ _____ _____ _____ _____ _____
10737 68441 25362 _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ 76186 77235
01839 _____ _____ _____ _____ _____ _____ 38115 18037 84589
20080 50622 51194 70288 56610 15956 _____ _____ _____ _____
_____ _____ _____ _____ _____ 93723 78227 20556 20828 38191
94427 94596 74877 20937 _____ _____ _____ _____ _____ _____
_____ _____ _____ 07445 19144 94064 19874 75273 60728 _____
_____ _____ 04749 68902 42327

13370/11538/10614 kHz, 03-07, 0230/0240/0250 UTC
+++++ +++++ +++++

13370/11538/10614 kHz, 04-07, 0230/0240/0250 UTC
89722 21583 18114 57465 15354 23765 52199 08900 03260 45370
12694 84156 95704 49645 50469 85810 21662 36900 19304 18859
61652 62450 34322 26672 46273 23009 72785 38376 11858 28730
02718 57349 61696 03076 51667 45517 06269 77711 49256 83134
80509 74604 06753 08748 64359 92511 18222 69015 46631 40061
94644 33086 19625 82592 66897 51205 88941 94960 18502 62255
30320 37479 34112 79908 39146 97200 74651 12076 46457 61715
15052 53350 99896 17651 05524 35121 33042 91078 42307 23051
71552 71985 58825 16610 49569 90036 73186 30342 34805 33771
52974 01558 85766 30462 83260 74145 89539 28800 48775 53175
53582 51593 66176 09557 45554 10682 27354 42514 35430 01242
39708 20317 95925 17673 74333 69369 88680 58255 58059 75935
80630 10766 70264 14427 06407 36232 30423 28867 94407 93026
87305 22658 34370 68475 45781 36330 84878 10177 92152 17973
44265 74209 03964 16025 33312 32431 55219 49116 63216 06037

52950 32652 87244 17584 66065 66816 59514 78653 32424 15693
49344 55347 55075 32184 84608 78805 23582 08425 22530 92930
21393 56360 71353 56503 05182 48200 11337 41883 67096 71414
88496 97479 15854 77969 79537 66176 37628 32494 58424 76903
22651 89052 64004 51540 68478 51223 89149 94338 95853 95162
44828 56051 38109 60348 67559 89956 90028 37681 71686 41965
27139 09640 68902 41995 31329 22178 46462 88805 83770 93039
27534 45472 11051 86190 62106 87697 95470 07058 21906 72142
85437 98241 57757 16958 66897 40423 22813 11715 81734 88115
70111 98923 04086 94981 97879 94307 10496 08381 41034 38047
04871 37844 72304 94160 84135 27164 81430 40223 55571 84782
45855 14598 41734 52172 91364 13381 33918 14884 66106 54238
80092 85968 76422 49319 18236 16442 57935 54453 91037 12493
80325 86788 02869 64112 09259 28085 04979 14839 73821 55832
19862 27306 13035 69397 40707 24274 99758 03367 66894 09840
65493 45295 61455 00513 74494 00025 41453 20834 20639 67782
37200 43243 45489 28233 81268 76862 00983 47671 13217 34899
05184 51554 10987 35348 69324 00000 00000 +++++ +++++ +++++

13370 kHz, 05-07, 0230 UTC idle -250Hz carrier
11538 kHz, 05-07, 0240 UTC Idle -250Hz carrier
10614 kHz, 05-07, 0250 UTC No transmssion

13370/11538/10614 kHz, 08-07/09-07/22-07, 0230/0240/0250 UTC
13370/11538/10614 kHz, 23-07, 0230/0240/0250 UTC Not monitored
21957 78102 46365 21455 71388 46424 38228 54220 13309 00706
04017 10049 01770 64104 99041 38116 20802 22572 57036 01999
37780 35418 61742 31308 30320 13557 56855 65209 72654 95104
42804 30035 92404 73040 33770 18154 33718 54596 73406 60307
87678 57074 32683 08584 75941 69786 38298 72233 98530 36778
05094 73490 81737 40058 70913 15613 87043 87990 57341 80313
67025 38556 04747 96770 79170 12166 55098 49408 93529 73707
80958 16639 55170 88523 84111 57747 87336 81997 12254 90100
46283 57446 67193 23891 63697 51994 02991 46569 37663 35130
37468 74189 58087 79619 25552 11825 77553 59478 67856 90252
63504 54673 52961 71105 92723 67256 56825 37654 74029 78607
47752 13436 10139 02483 70376 75892 34624 13548 07080 57220
84900 56085 40290 49608 97194 62570 64094 57072 34418 36794
18614 61038 82889 81222 45555 91905 78842 73290 88409 23731
50655 20297 85698 34266 87743 47609 30742 97502 72044 99853
96353 00923 33042 59781 47923 04654 12266 14497 93312 84696
48189 23738 43003 27427 17492 69895 78943 67552 93593 94455
55512 86717 08415 50559 81062 14934 28303 26356 53454 02037
80046 18857 48046 51346 87934 62952 81548 32720 07779 45297
00204 17196 68854 57750 65720 00391 59682 70045 37390 06873
18604 26395 73844 92666 15068 95700 02873 88092 32586 30070
32740 48127 89283 11319 03454 02473 56987 90147 01407 22518
64777 47685 85832 47379 97962 34081 00521 36217 28395 63837
69223 39005 37066 72561 98179 02943 14938 64840 34224 56708
52924 07909 51886 39715 56970 50810 67935 68597 49172 73727
06802 58067
70252 00000 00000 00000 00000 00000 00000 00000 (July 8th an 9th)
76252 00000 00000 00000 00000 00000 00000 00000 (July 22nd)

14814 33525 13916 85237 89600 79690 44090 23766 75103 44450
18880 76395 50320 74146 01708 93819 11564 39561 67654 32270
19174 13280 09016 75074 74034 95977 85489 77345 09796 21322
67437 76015 11773 94171 45637 32378 98425 41771 05990 99347
26388 82612 92596 30604 04960 42667 07653 73830 31017 73667
21604 15205 80259 53119 91982 67366 15757 70750 14379 18012
99702 31070 53981 81335 19343 26722 31112 19475 62989 62331
59214 26181 07080 33531 58710 89866 00199 90844 95177 78247
55020 43122 15286 11747 84089 80215 78913 17862 40395 19578

10904 83672 48659 06480 20879 48677 38292 22520 64566 05159
13944
71101 00000 00000 +++++ +++++ (July 8th an 9th)
77101 00000 00000 +++++ +++++ (July 22nd)

These messages were reused two weeks later after their original transmissions, using different headers.

13370/11538/10614 kHz, 10-07, 0230/0240/0250 UTC
13370 kHz, 11-07, 0230 UTC. Wrong 1000Hz shift
11538 kHz, 11-07, 0240 UTC. Wrong 1000Hz shift
10614 kHz, 11-07, 0250 UTC. Wrong 200Hz shift
64357 29296 38460 13505 94143 45923 80302 17328 91693 52704
43638 52544 17409 14120 38250 79964 09789 69908 74028 80058
01343 08369 96260 73194 38504 59696 21032 40353 03990 01515
31651 49029 65037 93806 22052 13992 95952 85428 98108 47595
48420 59389 72795 79326 68001 09092 16128 49283 80258 62716
45834 05263 94950 97932 69682 58149 01726 14142 15406 75291
55767 54411 09161 16559 76802 94315 88466 42755 09945 39856
60541 51089 21772 01643 42000 17377 30115 37549 40826 49676
90959 80993 66571 83029 90920 97065 79716 70011 18726 33666
16128 46762 14128 59854 47547 79194 17709 08594 64059 19071
69994 66076 89462 24625 33319 74813 65497 25425 34890 42692
65847 36159 54476 75168 25874 49040 72116 00000 00000 00000

00444 43617 47101 79782 30349 98312 35387 40059 50104 09547
56868 89167 79844 57654 86543 43677 85305 60752 37138 52931
16788 63280 70570 00135 33365 50815 40773 60189 10787 83338
28787 18948 56518 64155 56092 83585 80330 86638 87086 38768
93910 25996 56672 28313 37906 68244 83868 67023 59843 93574
57405 12387 91371 56306 04220 50824 98256 28602 76804 78172
01568 00147 20341 79105 93484 50970 05554 35154 96186 39598
38228 16032 37234 73723 81319 33957 39892 55587 50603 65638
51838 19256 69798 71628 60681 01973 96092 67733 69740 16786
52027 28153 32506 18629 24656 25049 69241 81053 17935 34230
14139 25784 69267 61634 66488 72295 66148 70298 44288 99602
23845 12508 63721 37442 10046 96804 92969 29028 27429 44553
53760 32590 90063 15733 69119 53860 54613 08670 80748 26707
92247 63372 84464 84098 12225 23171 57150 86592 73062 34345
73638 00523 42252 88430 36984 43091 90441 36879 70545 36532
31027 32783 45322 38553 41095 79327 40984 41230 24652 89672
64029 55544 04065 87947 71509 23760 50680 06049 73756 26808
90524 55920 14553 78891 46048 82017 52180 26474 99839 23626
89785 93856 91250 41738 28498 42523 81869 90165 41741 36437
50775 35574 94169 30494 05523 56137 53679 24295 19779 73487
69909 73201 00000 00000 +++++ +++++ +++++

13370/11538/10614 kHz, 12-07, 0230/0240/0250 UTC
00000 +++++ +++++ (late start)

13370/11538/10614 kHz, 15-0/16-07, 0230/0240/0250 UTC
53941 95305 49251 72592 72320 85915 52812 27630 57015 73609
95881 83447 25849 03533 59333 95165 83216 16584 17262 56284
86731 26385 40592 10469 74901 01434 26565 92725 41784 82107
02541 42169 69548 87231 77551 53552 54881 89870 40054 59755
90187 67063 25303 62419 85506 53152 00796 52912 42085 51429
43219 90814 13561 83761 05337 32110 15666 82892 96257 24272
70416 57112 23519 10433 95698 81973 70426 09826 76219 98747
07079 66673 76724 24305 58529 84732 83450 02111 78508 89662
84733 49023 02154 86419 26720 77571 76176 03856 05100 98421
89913 43708 78831 32696 55692 76175 16757 88847 11946 49263
13081 83774 47527 04087 32627 12852 70646 13313 71816 98590
70876 84942 46306 72584 47665 98604 41235 70449 03783 66564
84988 74121 00000 00000 +++++ +++++

13370/11538/10614 kHz, 17-07/18-07, 0230/0240/0250 UTC
80496 54619 87806 46814 33220 77078 55534 68751 90154 51799
48422 74834 54855 77099 35775 75133 70423 07234 57558 88277
98138 64302 77858 76649 37205 55720 65668 20751 40295 70703
71363 68653 04582 54181 89882 21496 42953 81599 28507 40942
65081 83031 21179 89561 23047 90053 56604 40052 01204 03797
12298 14242 54962 07643 11782 37823 28194 72977 47114 21745
03934 31449 33935 06198 68067 12170 91222 28135 90699 67298
62941 98274 54881 34431 23775 98500 87391 09257 36123 35618
71256 26896 50563 12393 44690 75370 66951 01810 16155 89643
98357 35499 50218 99658 05018 42253 03901 30820 90494 97579
18195 80356 77234 70229 94453 17997 03706 76637 10327 84404
10303 79201 54934 85795 06212 89357 87964 08194 34420 61369
52393 99749 77053 87782 95492 94558 68242 32473 77839 76426
06680 62238 74987 06014 85094 62850 01512 59751 78782 50523
12105 54253 60431 14737 59402 53823 33383 53329 13240 85886
00551 85826 71027 11389 11168 55925 13916 24437 52550 59072
88456 79349 79074 56085 18438 68576 95541 58740 76580 99937
37128 98271 70790 46623 13109 12719 24639 68370 06528 14060
56784 27285 47022 21067 88989 46715 98978 68821 37457 86644
32199 30826 67136 34009 67284 14654 13720 31409 12910 17068
02998 92624 37177 49556 22258 78397 40245 70204 23435 30889
20408 82865 62676 90285 50824 89539 06023 41950 09078 06929
55898 67595 26754 83074 78074 98890 51229 75040 33820 96941
36845 73563 46912 06102 07678 85616 60197 55519 59065 10817
61393 06895 90099 72624 82807 71848 84257 90255 04684 47371
80368 02267 16837 42766 01098 77720 18281 96538 31140 75906
59535 06667 62306 40519 57286 22679 47688 39251 36111 72997
32106 84736 76929 25964 50991 97777 76884 07999 14939 98789
50341 27324 79563 06790 65855 76694 65422 03227 17578 13564
27563 57473 79476 41138 79563 06790 65895 38733 26584 94823
59312 14902 67215 68711 41270 81737 58784 74328 12422 73819
05794 67276 91174 60213 13705 50518 45645 22982 75233 74621
38599 00638 81354 61525 90068 19972 74201 37792 87327 64699
84047 88260 96926 54363 17557 66048 58458 31919 89490 19844
64751 83460 15063 24415 58179 75345 00000 00000 +++++ +++++
+++++

13370/11538/10614 kHz, 19-07, 0230/0240/0250 UTC
00000 +++++ +++++

10614 kHz, 24-07, 0250 UTC
13370/11538/10614 kHz, 25-07, 0230/0240/0250 UTC
Messages 78 and 79
46529 77434 56174 15182 83081 43444 57440 52510 99212 44124
23746 12538 11685 17262 88931 63960 36401 79558 97402 08368
54146 74074 35153 04121 73693 04509 94869 60632 46955 29722
42311 38990 15881 16952 76139 19879 95771 77156 98393 24708
24787 30531 37805 00917 33824 78422 93124 07361 17944 71681
88652 60749 11562 12907 59179 29039 99564 26990 06489 82753
17548 81828 94645 40139 21367 54818 76232 67880 30612 68982
66732 17919 76253 04232 26235 27481 03246 57727 96733 91303
19478 50186 43936 93941 76253 04232 26235 71937 29494 40561
27560 22158 24650 66966 64578 91491 88904 58112 79341 08819
34807 92444 17573 45217 05019 94666 34791 13315 12856 57215
97452 48751 58325 39180 71296 85666 24332 66103 14091 59169
82756 79096 14956 00707 65074 06706 47460 07292 77215 57974
28668 98506 63374 60130 01341 96237 48367 89344 78138 00000
00000 00000 00000 00000 00000 00000 00000 00000 00000 00000

95508 45390 27468 35399 58800 95631 73422 68127 83206 55452
71388 01780 18145 01328 45648 42320 91168 38671 96505 32452
96729 19401 56870 78296 48389 00403 33314 98434 42427 57074

42540 49998 07756 23135 79204 11502 38123 48900 76008 27098
32496 95194 42028 48951 90589 09098 90197 83401 37468 20712
89892 42540 49998 07756 05542 36497 87751 10829 07222 54219
39278 64568 64156 18647 53071 56161 57060 66731 55762 03127
70274 78945 18538 80511 49622 12309 41020 34049 36924 16712
51644 75826 17106 14235 22995 54669 38857 46137 25502 18410
94739 87282 67967 10250 71730 92188 98336 66382 08092 23880
63169 07074 17538 17751 49230 38354 66621 62597 55654 06774
16282 82031 70110 73583 63486 86455 47413 01923 43912 30205
14000 72792 81597 03561 46742 72867 96502 14311 99497 21021
05921 38550 75859 25816 80675 45405 71531 91141 42035 25372
34772 12174 10252 76957 18344 28863 40935 30304 21395 29127
09369 19497 44736 18935 30087 12225 07915 01481 21271 86516
01562 32614 50730 99157 73410 44744 24131 71613 71465 56372
01439 16003 92788 09468 52534 56896 10881 01858 87917 28602
81_50 06827 25448 52626 48265 97108 79062 24992 97860 15461
80398 68118 38597 59011 69266 26930 99463 69556 13905 13853
74118 47010 46967 32670 57898 28182 28154 35068 51324 79209
00000 00000 +++++

13370/11538/10614 kHz, 26-07, 0230/0240/0250 UTC
not monitored

13370/11538/10614 kHz, 29-07, 0230/0240/0250 UTC
+++++ +++++ +++++

13370 kHz, 30-07, 0230 UTC
13370/11538/10614 kHz, 31-07, 0230/0240/0250 UTC
95775 91715 20145 59579 36386 09518 00405 04531 16429 71223
41679 01091 82467 79250 79072 14878 88165 04718 57222 89285
46529 77434 56174 15182 83081 43444 57440 52510 99212 44124
23746 12538 11685 17262 88931 63960 36401 79558 97402 08368
54146 74074 35153 04121 73693 04509 94869 60632 46955 29722
42311 38990 15881 16952 76139 19879 95771 77156 98393 24708
24717 30931 37805 00917 33824 78422 93124 07361 17944 71681
88652 60749 11562 12907 59179 29039 99564 26990 06489 82753
17548 81828 94645 40139 21367 54818 76232 67110 30612 68982
66732 17919 75696 47164 09249 27481 03246 57727 96733 91303
19478 50186 43936 93941 76253 04232 26235 71937 29494 40561
27560 22158 24650 66966 64578 91491 88904 58112 79341 08819
34807 92444 17573 45217 05019 94666 34791 13315 12856 57215
97452 41751 58325 39180 71296 85666 24332 66103 14091 59169
82756 79096 14956 00707 65074 06706 47460 07292 77219 57974
28668 98506 63374 60130 01341 96237 48367 89344 81158 00000
00000 +++++

This message reuses message #78 as most of its contents. (PY)

F01 – FSK 200/500 Mon-Fri schedule

11141/9192/7363 kHz, 01-07, 1015/1025/1035 UTC
37137 45154 52228 78011 61475 88854 87697 74868 16641 85785
11372 55828 71785 00244 12388 79834 62909 93646 79942 78388
50128 54632 72519 95457 85974 84323 63008 06785 80681 66472
08125 60774 75365 77140 15598 08148 59059 13627 07537 12560
90538 47315 03439 59355 10858 30139 71251 04661 57559 09349
19949 31993 16467 30261 32044 08579 72029 31685 59481 58564
42122 63721 31343 95310 08269 82598 46814 79955 77207 02256
51837 98433 34743 07349 22894 74143 77816 57373 06354 58439
35744 36579 86828 66154 16548 29384 82967 48318 39322 25959
94127 19280 38570 87672 46370 80401 51459 27092 11196 07535
23916 82219 95488 94441 96506 89655 26074 69368 56046 86375
77352 26950 63859 94804 15433 42627 96647 70886 57209 61783

60886 19819 67815 80763 66693 09163 44894 61980 72113 33997
63125 50295 33742 13809 77443 82844 24647 25814 08376 09522
05497 04391 57965 66284 59861 61311 29675 68481 29606 06464
50755 16394 11322 73749 20472 30162 99723 81842 32665 56295
88967 84503 46049 12962 67807 90126 00716 66220 69541 55216
04261 54405 62678 81475 35972 02846 93268 71193 42531 96095
14824 20626 23650 99881 66785 56049 31090 49933 87451 42173
29494 49907 72322 17612 92471 45572 13794 37089 32386 67455
83130 25067 87251 59133 40666 70496 13217 33350 85162 17357
56039 23164 78266 30695 00004 20290 05001 42830 17724 17849
56232 09431 69256 99687 44041 30137 23966 43474 85948 13423
03592 29752 18919 90383 69932 74133 29095 07137 05606 24827
08188 50524 61300 92690 72459 86804 67987 05978 05253 18014
37490 06993 08985 85701 99887 32822 77549 76705 51161 47330
25078 10670 09536 16622 31971 13995 03954 45144 94164 09889
43106 14618 86550 79227 38479 92993 76493 71901 79834 05612
48388 73338 86568 85760 25187 55887 83389 46807 97834 69754
73754 43113 98553 53182 09485 11892 78916 66544 80023 13220
78636 80059 69749 10376 96019 69811 56801 57704 96019 01746
51842 88176 16817 08351 00199 17860 60883 87697 95822 09455
81446 79537 80502 62111 00309 98126 26766 19700 17946 26485
27916 14724 01833 01768 43628 90068 63927 46434 74555 65764
63252 24909 64368 42965 94510 30411 52687 62313 48677 31660
27312 58886 56498 34118 49224 80923 50838 35479 48768 64496
08813 80084 16466 81334 59641 41943 36899 01973 69167 91066
39091 41430 36968 22775 61835 79585 67003 54694 57399 73452
97736 21111 82044 03537 02666 19372 46803 21460 97201 88031
26946 91044 12832 21422 53572 40040 24510 50331 35780 64681
42196 43489 86824 54269 02508 09540 52727 27956 21394 04186
66764 00925 93792 72199 78269 22154 51186 78988 29184 50946
13018 11388 76812 64420 92883 52391 86195 13144 45450 59487
40552 67097 65033 01300 43229 19161 71771 32214 09589 38308
46341 09683 72275 89688 99135 90445 00000 +++++ +++++ +++++

11141/9192/7363 kHz, 25-07, 1015/1025/1035 UTC
55949 98123 44068 84536 42490 44716 15127 73564 72610 01772
40398 38468 82729 44725 38733 56874 52850 07940 28702 30399
09872 95028 48949 30171 73970 04506 55210 25663 21486 37963
29924 76503 62744 82944 65379 91969 58264 87724 06339 87839
21778 70160 63068 95298 83508 27823 30715 01586 12132 41575
75972 27054 18879 89800 76966 68363 92189 15464 27301 62456
36384 13188 40203 51033 1276: 28539 13704 50196 06620 86712
42789 54963 68492 92789 89458 33329 03268 70769 46643 89560
05409 33562 56892 91083 00000

96349 52855 85530 01623 80548 66951 80020 86585 30341 52817
53918 79227 10762 48292 34783 84102 53439 30836 81470 28290
32716 41865 24566 57266 13739 70944 06120 27351 83452 54544
92141 61928 00455 69021 56286 63623 24624 22534 58168 99623
12477 75566 64741 02331 89180 44759 88184 52533 33172 69722
38726 37290 34298 47524 15849 99696 11442 64550 86314 22750
00553 80403 22434 14469 49025 43551 99037 86477 77360 43393
72568 43233 94055 28441 90745 24089 74647 45307 06229 92079
00000 +++++ +++++ +++++

11141/9192/7363 kHz, 03-07, 1015/1025/1035 UTC
65650 84524 53295 05498 15039 64177 36121 47441 88710 76823
43353 16378 61261 98736 47824 08882 52544 89116 20225 26816
88943 40211 98431 17734 74121 74794 93648 99360 80169 45696
06814 35341 95120 17068 53688 54452 87730 32081 22073 30452
75492 96732 09603 64762 06808 34452 15333 91771 93256 91198
89671 30771 52909 57351 29880 61205 50561 04763 69034 37613
46007 87603 79165 07260 85987 30130 24354 93154 01054 26213

18531 52811 93101 41188 50641 47336 24574 37614 52216 73039
45262 17032 04890 92753 17639 08390 11291 84043 26671 97235
77747 46499 85035 95560 82253 35302 69685 68377 26122 13242
50700 21729 92768 38384 98362 81809 62059 29566 79392 19882
53663 _____ _____ _____ _____ _____ _____ 77303 47165 97770
72554 90239 47410 51643 62867 85131 31398 83568 04208 09288
83881 26665 33921 83195 51121 06349 24661 73028 53513 47231
87655 50725 04726 62550 88571 17051 45772 18292 36910 92342
17471 89219 34880 04610 19711 48978 96676 29692 30981 61470
74113 63152 86584 65688 49533 28592 38987 71193 81945 52088
48722 06424 17321 57426 79315 87021 98991 61817 94636 96373
39075 76799 82135 95536 36876 43997 50398 04753 50203 60432
74447 23731 90524 73072 87247 82886 97915 47310 _____ _____
_____ _____ _____ _____ 87907 25080 40411 52707 58938 71496
54492 61535 37285 _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ 14966 02947 51147 81009 36554
80160 26048 12080 36767 15589 25315 70497 96595 40049 07299
44374 13411 99445 71821 59262 22168 79577 77920 35615 _____
_____ _____ _____ _____ _____ 46791 40153 97559 14824 63672
02317 01343 19577 21599 _____ _____ _____ 48759 87733 72692
19331 43802 57827 87693 67670 05589 34291 43114 87524 04842
61631 90950 61216 39876 39894 87979 6?885 43600 28426 62399
68079 33975 66904 54504 60723 25114 99605 90044 33656 41220
13823 11903 08421 00536 28387 27292 61399 61507 93219 87103
61399 61507 85862 23157 64197 98133 15914 92399 73234 96790
73309 83821 71980 95879 81400 16682 44310 27647 40739 65400
95598 60351 74534 30572 26544 61129 11704 97965 46929 58558
68456 90206 52765 22123 14354 40817 15250 00756 9____ 45307
54979 87647 18738 69008 99853 03527 53996 16329 50110 15562
80362 91121 98918 34120 41990 28581 81989 54525 89992 98285
54619 36037 93973 23263 19606 35213 29708 44456 54500 35865
71592 85589 11590 42772 35207 57933 89090 31364 94444 89712
96957 70535 64364 84138 65770 60804 60713 60731 72109 54981
72031 59637 _____ _____ _____ 13620 14061 91943 91093 17412
36133 61896 59041 93413 00000 +++++ +++++

11141/9192/7363 kHz, 04-07, 1015/1025/1035 UTC
09662 36257 95775 14202 76036 86487 33933 16080 21259 93614
83935 84315 85483 89642 36934 05299 28859 91303 31545 21897
89626 84304 43838 27128 71220 52594 02416 83312 56815 44833
89530 71418 74749 95268 14175 00250 63264 41176 68081 30202
08000 04085 00569 91243 50676 26952 73175 99835 92411 84483
80016 04452 40101 08790 44795 14406 69303 97553 30418 91671
02062 96914 22145 10370 23115 94065 00000

20701 86710 99900 46911 39056 69144 10976 24851 81711 47897
35523 18588 90831 22918 93961 08602 35783 50884 93870 28768
40794 02226 08869 29481 44346 76847 50949 08075 94994 01969
53449 92455 13297 60537 06869 88898 74551 23647 14694 29942
92016 85389 61430 83318 05305 23599 10043 07857 03649 34896
70957 67291 38708 17499 09850 37925 06622 00220 86382 71074
03982 41092 41089 96233 87422 44063 72588 75907 91508 67192
72320 48034 84616 20787 08988 16946 67483 78921 79895 78801
44126 52772 71363 92432 19810 99201 95421 31533 05753 63043
94949 79135 35254 76501 34472 50309 20946 64132 18775 54022
07835 26820 06549 30094 01834 03197 11241 22192 78477 31938
06291 72791 01492 63385 76961 51055 05915 93904 85933 49550
25466 21458 44851 95123 00000 +++++ +++++ +++++

11141/9192/7363 kHz, 05-07, 1015/1025/1035 UTC
00000 +++++ +++++

08-14 June: No transmissions

7363 kHz, 15-07, 1035 UTC Message 96
Largely unreadable. Ended with 07576 07768 96424 00000 +++++ +++++ +++++

11141/9192/7363 kHz, 16-07, 1015/1025/1035 UTC
95224 95097 06576 08563 86520 66648 95062 81502 88022 79561
93584 78584 69120 30180 05816 02913 44037 58143 47601 96975
16495 13493 01252 07849 74492 74268 22275 14609 96098 19281
21987 35137 52239 85748 74437 54507 17381 66480 21096 42142
24063 26304 71717 97043 00000

13698 87264 78916 65159 05852 29484 37405 95244 47899 14920
26013 72685 43339 14456 41134 64290 25412 65263 98475 72889
04723 77675 11202 46798 10329 09351 04503 71416 41463 92663
96276 91384 72096 26248 98612 36757 75513 66642 19764 51602
61101 80968 71293 48493 40526 46583 10082 37310 65501 08645
69896 01791 04314 31516 62181 22288 49317 04966 50791 68137
72562 91081 30322 08107 71766 22852 62758 12339 73792 90337
52094 44243 87847 75385 61641 65759 25566 20811 03694 04446
30179 44991 56243 55814 81953 37807 86442 19357 72083 98866
85477 91710 62237 03958 44567 65375 71922 10658 26761 06445
60880 39034 14218 09776 98683 88394 35670 55037 38731 75994
03743 12074 38820 08667 16832 69028 95489 23292 05212 81646
84328 23414 33428 37193 91596 02093 74809 91596 02093 74809
03841 22675 42282 98133 00000 +++++

11141/9192/7363 kHz, 17-07, 1015/1025/1035 UTC
95800 75083 51426 54283 06843 48737 17270 98237 34563 98455
78387 51118 58764 35147 23767 05103 51542 50318 41091 24372
37580 61307 61659 63434 54543 57005 07738 97669 74511 48757
65802 83251 72375 56115 34085 88664 52155 82156 17884 64985
67154 58029 71061 47119 94909 61427 07167 03188 52856 38684
28635 74241 65655 85156 47479 71496 20123 63602 95931 23275
68687 65240 50459 88841 67321 43158 17599 81327 58890 72788
55045 66909 37839 19105 26427 32464 57171 15266 13219 38851
63646 82347 32213 02040 72140 44898 31999 69246 15099 21966
66880 82284 28036 98312 71678 45310 56991 05488 85843 39143
98910 67445 00324 49360 10863 90413 25627 00354 49054 01679
04510 12521 23551 66989 17733 24794 79677 41252 56318 49689
41998 32229 58756 53058 81843 81899 36577 75741 94304 95189
36754 39297 95641 70754 14351 03000 77034 13493 13862 64302
75622 33497 82686 19937 48768 61101 65160 29847 62474 32751
50602 51143 29910 27339 73792 34263 60956 57734 91333 98530
08741 47164 82331 29286 24072 45154 46822 63800 53723 62698
00399 58135 43506 31361 88458 52151 32058 15992 68528 74851
46300 35740 34076 57238 34485 73055 78285 44883 97783 75366
21191 27386 06342 79125 48637 26922 10751 10898 36496 13051
84863 45194 58563 35990 60895 23727 01602 95528 42746 65779
35928 87773 08486 24378 15029 96917 37939 67949 02596 24211
26298 92156 50452 71329 69712 91596 75796 20326 33792 46047
11190 77348 40951 00958 25748 72317 37544 46860 40948 31746
26717 27394 89517 66893 77925 30634 90810 44437 49049 43406
41142 31854 82034 73278 42484 34694 58020 67915 17995 67933
22870 86479 87788 28606 19043 02782 03403 61881 84767 44842
64398 37794 06420 00580 65513 80800 35076 44290 47836 19364
03153 63622 52410 47732 02090 91718 99716 17125 06997 74231
43483 98492 59222 25885 72234 84047 42760 56267 57045 19758
15444 69563 68910 85973 80866 67892 14197 68400 11957 12944
61581 86578 62154 25606 58945 72077 25123 28273 63641 13582
28932 59508 34573 11062 75650 15763 59537 06209 62286 99829
16251 81333 44015 80730 90509 43900 25630 94701 99910 38909
92147 42000 96583 56274 14516 59180 47357 25434 91357 71555
14811 14336 12683 55520 87638 75015 56516 65428 33765 02940

54366 04699 74661 02310 86484 45858 04280 74501 92847 29188
01062 71853 10795 94681 06445 83955 75266 26979 68316 48658
42578 17987 72843 04970 23667 76854 13117 30038 37745 42008
68051 27402 22308 74914 89978 58699 60417 40277 24370 36017
11217 02346 10118 17078 54603 92019 33829 70441 85992 24449
36558 02921 22131 71804 96418 66379 03862 20911 35508 86126
06826 99421 00000 +++++ +++++ +++++

11141/9192/7363 kHz, 18-07, 1015/1025/1035 UTC
Two messages. Too weak to copy

11141/9192/7363 kHz, 19-07, 1015/1025/1035 UTC
00000 +++++ +++++

11141/9192/7363 kHz, 22-07, 1015/1025/1035 UTC
62683 01605 17784 95930 44811 64448 86292 76239 66727 33606
18531 12533 38061 11390 71922 96298 13108 28538 71434 83698
04283 80203 33228 32566 60894 88588 21613 05923 80442 28184
18984 40425 44627 74543 13437 03198 97239 62531 33753 85473
06153 64972 86421 06502 76563 27662 74415 26134 07709 21651
02380 89545 10210 98758 97941 52526 26262 61245 03818 60763
19837 81577 20412 81582 29092 33238 03586 11553 98178 18499
47295 08417 30628 04112 05776 20770 31507 00840 34968 13937
30534 47778 57868 15470 03338 87399 83490 28718 33047 42254
34133 87899 79399 29272 60629 53115 47561 72595 50277 68739
73837 00894 57131 33631 70463 40075 09343 56596 96675 37355
73244 95537 48221 77610 78853 03745 82531 77949 36495 31736
21715 71448 99217 58119 00575 15982 50709 47881 51829 89090
23374 61560 45735 54820 76286 63742 26283 13474 87687 04299
11170 70203 41723 70824 47721 83400 14104 35704 41968 78794
86385 46236 03045 40221 43542 31275 70115 12984 34534 22802
14002 80755 00548 15883 30707 01946 00598 15436 69021 16483
89186 43260 59400 58944 25694 03751 36297 38965 20198 31746
71136 74883 45405 70935 58127 91527 69388 56279 20092 18117
88802 98862 26500 47189 67285 96635 40898 40501 08716 19461
39925 92842 20029 41925 71092 89696 43261 22332 41524 19683
61528 51332 54839 27727 08612 18616 38367 19889 36852 71107
27884 55784 23023 61108 02054 89550 16884 07811 83766 45277
62102 20632 50554 37851 44216 57802 21282 75143 45339 18646
11292 02494 10299 92985 73191 75400 53872 16120 65480 71385
63840 02800 16184 76948 79516 58649 73709 10562 50456 92462
62084 67630 05033 77820 82782 98371 83561 37460 30318 54532
15657 48831 13800 65901 46527 94290 01621 32538 41869 04354
31495 43661 26075 67456 52997 59138 33418 04656 94822 14508
76923 32707 73934 35478 64594 63966 88794 72829 17692 16531
63863 93669 70754 33091 37561 89972 58043 31895 10867 90340
16095 38285 98752 85923 57086 70241 51642 06441 92674 76361
39064 07236 13023 49725 12714 53300 50686 66066 91087 11213
84046 19710 32891 84926 59985 55692 91401 56335 40488 21510
66980 16567 02857 86945 99907 98940 48221 05380 70748 49510
98044 15064 00414 96155 83302 03757 67129 02138 56022 85184
82471 15072 77875 60755 93686 47236 65513 64960 04460 48179
97317 17909 31328 55543 11273 33427 37927 35044 48637 56160
14260 45559 23102 26121 93168 90238 20124 94105 21203 39598
56126 36444 26069 37519 52245 42485 47851 26094 02319 73286
26187 50260 39798 14927 60586 28154 33274 74886 86087 98128
65304 94935 31431 78365 74228 03415 00000 +++++ +++++ +++++

11141/9192/7363 kHz, 23-07, 1015/1025/1035 UTC
19260 54523 33216 05589 22068 02946 51834 04140 56876 60995
30763 85448 13051 71564 39811 50290 28133 65702 25905 66672
84030 37294 55223 24247 97828 90880 21048 17338 55670 04812
28286 11267 63142 76917 90575 71667 10600 44888 00939 61479

76872 98551 61902 35300 19785 26224 86027 85788 26933 62342
02786 21813 25148 28540 32729 83016 72093 85377 14872 20502
78428 36905 98238 98309 33970 55234 33507 95396 36305 17331
25691 04071 00000

71857 90365 51148 86042 89265 43396 00435 24121 92867 02361
74554 63766 99120 87715 41588 49361 24827 32948 91413 17475
63754 36477 38946 31825 55170 73020 24746 05047 86439 75378
67669 80716 96903 22560 49264 74068 75214 95198 34590 94842
67308 84188 59145 00695 37221 63482 36609 54610 47908 62981
67052 84767 54289 02469 50346 70265 25674 72510 34411 01184
39774 73267 53037 86385 15490 47156 32930 07515 76642 66293
74683 42624 63863 60663 37375 07869 36805 97943 81449 90700
33882 50938 49597 73011 81707 13528 90310 67643 71432 51111
53798 16731 44163 96446 14953 25282 52651 26839 03059 05099
00000 +++++ +++++

11141/9192/7363 kHz, 24-07, 1015/1025/1035 UTC
Message 06. Largely unreadable

62724 00927 39505 02667 57065 83171 15033 59939 32119 54522
15400 95741 _____ _____ _____ 78517 41122 96301 89175 94291
28030 84599 67312 07581 04290 98852 22797 _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ 64092 72408 23215 43225 97404 85170 64426 68226 76809
52517 44460 43379 19969 67706 29377 72888 92423 55976 08044
89438 74360 _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ 21416 86701 81784
15254 71728 18995 01112 72188 12873 81984 76902 27903 38043
54795 45571 43452 22414 37784 06348 77161 43519 _____ _____
_____ _____ _____ _____ _____ _____ _____ 48840 88480 01528
55940 73716 15331 32773 20500 54876 96428 32248 75197 52013
85401 18843 43278 00265 27537 42015 62137 12180 88389 18574
36007 84868 08266 98857 35606 42009 31028 04502 55697 65414
80651 04964 66507
unreadable
59556 01134 24583 67312 71788 90340 99016 22402 66417 82325
67889 85243 41668 07060 50277 28147 40918 42115
unreadable
15949 91240 49068 77610 50724 46041 _____ _____ _____ 06403
00000 +++++

11141/9192/7363 kHz, 25-07, 1015/1025/1035 UTC
00266 79000 11696 47763 03371 44401 22757 96701 82933 50085
58007 44488 66558 26720 09032 15332 81702 18701 08332 99350
92026 84634 25487 02134 88915 73705 42710 91258 67861 26344
51983 50738 44405 72665 40967 79299 89306 27092 59863 93454
87645 02599 86424 21297 51539 93039 31294 97948 41149 96961
50865 98616 73692 81376 59849 07055 00000

74169 08976 93816 44373 15359 18541 86984 73137 54951 01129
51861 01254 34413 93930 98696 76436 49624 37844 14481 21104
25043 92043 54532 84097 41087 14663 64666 45247 25690 64276
07358 39946 45934 01869 90347 95942 60740 97988 21131 99511
20514 74752 35757 33225 24706 37409 75389 52480 73229 75139
09050 92989 72647 35781 25998 26415 83096 04166 46172 06330
16861 38761 22137 71709 24549 46296 30974 00119 29804 99066
79546 27801 98488 24601 71582 78848 53277 22377 1001 57063
56595 87278 33011 87716 13850 44478 07128 41370 09877 25430
26036 56961 44547 39665 88252 56343 48478 22079 52305 27446
12772 08101 00000 +++++ +++++

11141/9192/7363 kHz, 26-07, 1015/1025/1035 UTC
00000 +++++ +++++

11141/9192/7363 kHz, 29-07, 1015/1025/1035 UTC
96512 15863 37721 79193 05792 55851 52700 84651 29550 70981
44014 69432 77213 41667 27156 73076 31908 81397 76528 70712
59781 48423 95955 19317 10043 85450 57243 44302 16670 71906
80254 33630 37703 64189 52921 31626 93089 28603 14638 49693
86984 96641 51471 36103 25471 97336 76619 72062 65630 46337
94569 86230 56889 96413 72380 04886 60593 79082 66527 79921
58744 92023 78761 61863 87831 11987 39401 10091 58696 37884
41507 57458 48372 93729 74370 71490 74837 46143 29757 79356
90608 16088 79345 48794 56127 89528 46786 42181 78860 56711
22839 85936 29070 34739 97000 22448 68174 53139 04084 36696
50645 07102 09175 74781 85381 08083 79399 96531 67486 86464
15951 29373 16401 25941 44806 15670 81311 34346 89572 70693
99793 80577 74897 93439 20603 52336 33885 97451 26570 14344
17953 53859 18535 71742 32570 63808 46242 68352 47307 02472
97156 74487 53645 01835 79126 44000 68969 64430 57820 45259
10200 25225 34904 95740 85483 03834 77860 54910 77390 14256
37421 55110 16054 24315 13524 75104 65684 81997 55745 85999
72907 50873 09149 24214 50347 21779 41469 71178 93910 92965
12595 44472 57190 35890 72265 30067 31440 88835 96926 10369
04557 45551 01692 67759 97496 31105 88334 68298 01573 82120
15248 55300 65072 73607 00324 07459 02628 59553 92674 41206
25772 19475 74138 62003 18129 28116 76513 94238 03674 90473
25443 44432 81484 09346 46909 77425 25452 77587 97251 10248
72350 12260 02666 53341 46741 72859 19109 53848 96118 30821
48550 20624 34755 82473 72516 35680 19665 22643 88846 81748
07152 21089 62618 40632 63337 68955 27162 42056 27153 87432
96122 67688 49197 15812 72480 40023 54911 21127 65490 50821
05515 96555 51468 08783 55124 40785 39358 11146 27509 35523
27028 68903 60905 63336 59219 40315 94340 33011 23103 52410
93897 04621 42357 15168 42355 31486 55733 58056 40646 61220
91020 43629 94572 63043 70360 37849 85208 73548 07854 41855
46432 78120 85379 14823 98027 70181 17580 42638 07784 55455
41945 32060 81044 93446 94927 35048 01129 93301 60030 32968
69070 06262 98809 35335 16113 81883 00723 72802 87397 80214
12757 89075 20272 57113 34787 61436 65674 64902 91592 04572
26017 35545 17467 37389 08015 38519 14368 17503 13884 30593
69537 73094 19370 39686 43535 86816 12019 49988 64613 11432
88144 80546 90383 21885 31925 74490 22701 33488 25064 41092
86714 40899 60455 17846 10007 57593 58291 44755 62775 60516
08050 68006 44986 69586 84794 15242 31433 16763 13233 09582
10653 84339 77963 14620 78611 17177 03353 09407 00000 +++++
+++++

11141/9192/7363 kHz, 30-07, 1015/1025/1035 UTC
79045 22970 62943 41148 31787 47738 89646 76754 59241 26956
69583 66287 09185 53192 09034 33310 35242 48644 64372 61624
41068 29806 84152 99441 69941 99181 86445 39821 75707 43746
69864 69564 36004 44823 81728 03757 93707 29083 91785 48135
37547 15333 44936 56485 57805 36809 91408 75234 38067 43629
17807 92450 68928 15118 27471 33409 94624 36683 43601 69944
28499 20923 33566 35750 98266 77669 77841 64820 06988 62635
32017 95233 20714 59365 55304 05450 18720 74181 03989 75308
67284 48794 13261 88937 02929 10085 00000

36713 28649 23050 25334 96463 17310 05652 83554 57280 88207
85527 66414 71704 74532 56048 52857 69883 79149 67157 45697
06394 52446 33371 05377 97778 23800 09843 24059 61754 41337
09943 07233 94010 99691 62766 55035 43544 60427 34025 60459
72470 94834 58760 66652 11239 03773 59301 50473 45200 94246

46922 24519 93459 17416 30625 74782 65948 97716 81484 76156
09657 07779 26008 52945 79971 68837 66927 76589 98034 81315
54869 17784 80090 15274 59349 95178 49733 15408 12517 87844
68999 00288 24085 03708 49258 60516 90899 21110 27812 85511
49568 45720 21162 11093 00000 +++++

11141/9192/7363 kHz, 31-07, 1015/1025/1035 UTC
96340 21891 18398 15839 58167 73381 32064 87405 43024 86971
17543 57407 80962 90824 80168 50140 56624 98941 18934 80475
18853 02984 04324 36739 63844 31758 94511 55486 77768 08076
38387 30358 49797 57652 38829 22203 91482 49757 74671 62667
23425 74277 04797 68415 15157 84900 02806 08193 89187 63103
95672 89903 25153 82615 04860 59897 24987 79071 13303 31648
25083 54521 06709 86018 66348 71488 62617 10291 58118 16272
85647 68155 96849 36174 12373 17845 25539 80331 34263 20602
44802 98862 12138 06660 11545 79992 80546 90936 86178 29853
65543 55624 14303 24654 64264 41855 53795 89898 59769 17638
83257 86341 69571 14257 52738 07367 51291 48311 62684 17485
13885 71583 82047 86628 07869 15935 41493 99935 92992 25401
62641 47711 06788 92686 09283 25248 82427 42238 71500 97198
89354 27093 18647 06193 95082 31673 82095 30372 71640 97739
53728 19541 95075 15666 11069 64619 11466 48235 05025 80080
67869 79147 71159 04072 31652 03418 50440 45890 46638 01856
30389 35513 99505 66818 42593 54867 94883 71417 77487 55521
62566 99371 02370 92495 45304 77691 93571 28868 40594 79378
18729 90872 94910 88345 30081 78169 73816 43714 54755 58982
56393 05703 92949 04783 27418 10288 59967 44217 65739 04816
33041 40955 52280 81759 88869 25153 46101 52812 42826 33221
01979 30496 25757 35572 27913 09478 59314 57053 06023 64783
15771 19736 25256 09090 73231 62758 99346 76288 02204 18909
68477 23505 44448 52628 08055 68767 70052 89133 93060 06497
23664 89335 91408 68029 95823 50250 84734 19338 80333 35583
40074 13148 03592 66175 80849 37640 36847 25004 30614 28918
27296 56419 27989 39437 08962 64308 36225 79571 79302 38866
95836 74522 52478 66681 93733 03735 25207 03792 47298 15033
16172 16433 26839 30641 64885 19138 64863 87288 00974 64895
25601 77590 19804 67040 33225 84874 25398 57574 82189 28664
26571 11597 78148 62980 97224 92540 82868 94679 36744 97892
61586 13983 91425 10088 56244 54407 22881 82274 33044 24283
34347 13623 77753 77028 90846 93874 37202 12394 94135 21818
30409 25845 98368 27380 77777 48275 77424 52010 21790 43244
79838 67062 37646 53918 32257 34847 57283 16907 77372 42047
55206 85182 57268 60186 69577 27268 78108 12837 56997 94882
17116 54245 04406 76230 57767 89085 46566 77123 64158 87997
62535 97121 30454 78624 49586 92884 66386 16822 98009 45910
04714 67730 15223 76860 41600 51401 72644 73659 45835 32655
73750 25541 97840 59872 66765 80246 44405 82393 50420 66552
80070 01222 46205 49317 91117 32710 35578 09239 23099 89933
85539 64499 57823 11412 11031 76501 10768 91893 47585 06864
84833 94870 32664 12423 00000 +++++

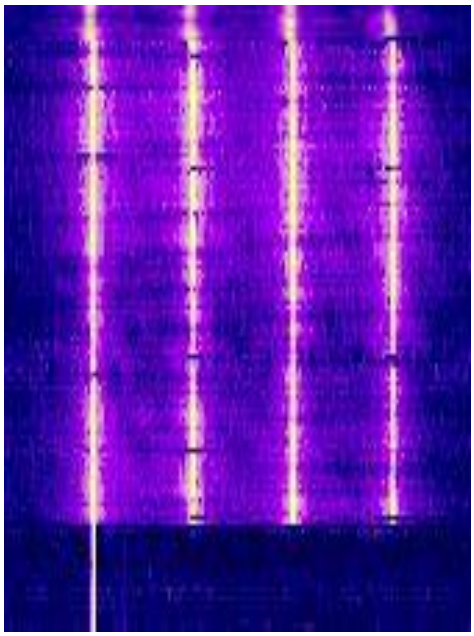
F02 – Russian domestic net

F02 is hard to find these days, but Priyom received a couple of logs:
6992 kHz, 01-07, 1014 UTC
16083 kHz, 03-07, 0702 UTC
5478 kHz, 03-07, 0824 UTC
5123 kHz, 17-07, 1627 UTC

Mode: FTM-4 (FSK-4/150Bd/4000Hz), also logged as FTM-4 (Frequency-Time Matrix modulation)

13370/11538/10614 kHz, 26-07, 0230/0240/0250 UTC

Tony made a short analysis of the signal on his excellent website:
http://i56578-swl.blogspot.com/2015/12/mfsk-4-150bd-4000hz-ftm-4-effective.html



Tony says:
This signal is logged as FSK 4-tone with baudrate 150Bd and shift 4000Hz, or else CIS FTM-4. Looking in depth, they use only 4 of 24 combinations of the four tones, so the encoded characters which are transmitted are reduced to 4.

This mode is called Frequency-Time Matrix (FTM) or, in this case, FTM-4. The coding method is five-digit group of characters plus spaces. The four symbols are:

A) 1-2-3-4
B) 2-4-1-3
C) 4-3-2-1
D) 3-1-4-2

Looking at the segment we could find the occurences of each symbol, for example "A" occurs 4 times, "B" occurs 3 times, "C" occurs 3 times and "D" occurs 3 times.

Since the baudrate of the signal, i.e. 150Bd, the real data-rate is 150/4 = 37.5 Baud.

F06

Link 00000

9923/7369 kHz, 01-07/02-07, 0800/0810 UTC
11100 00000 95284 28044 01799
39001 81684 34666 82864 92674 72658 86454 45846 24956 06766
49690 71518 30761 72914 15566 24119 47661 15871 67463 93285
62493 38064 33707 76570 17682 99916 32990 25330 34441 04657
42169 02439 95077 78534 41107 25244 51549 82389 14250 92227
52486 15502 13637 16786 05858 97666 13021 16577 19463 40425
07785 31876 86455 43401 40356 71371 08062 76663 55785 08836
70698 35071 17201 79117 19676 75515 35802 46883 96662 73025
95098 46554 33119 56642 74075 16871 16861 11034 98963 78523
73966 54752 78322 28284 33199 31100 01103 48085 65137 72527
02385 52475 13195 24505 26490 22887 58731 39803 42127 02164
87427 79122 89291 47777 49116 79002 62583 67172 28260 72966
60637 83677 67261 76809 56358 06424 09790 73461 88236 87394
96284 92901 35412 72345 39073 46188 23687 39496 28492 90135
41272 34531 28568 61801 89932 98912 03055 32961 18554 02151
99858 19974 68098 19821 25753 76116 76988 79270 68613 71504
24487 95251 69360 21553 16753 18937 60794 49913 45255 48758
15518 96812 72238 76492 70119 08747 22936 67038 17822 70457
89192 95327 86770 65130 74215 88795 46156 44177 00000

03-14 June: No transmissions

9923/7369 kHz, 15-07/16-07, 0800/0810 UTC
11100 00000 69873 12045 02139
89134 02324 82845 16569 55177 56415 17091 57211 50095 72754
26555 48543 35645 99619 64089 99161 90114 29443 43093 51452
61778 15688 31848 70985 33983 90698 92629 63495 69349 14756
77067 83841 88596 29916 80276 05325 44329 23957 05721 26337
68494 63276 37296 28968 31234 93236 95152 28583 76589 73914
08850 49012 89124 20254 35440 36458 88688 25344 85119 60998
14442 31108 18713 90042 89838 15382 13749 08580 86999 43791
78334 13593 83655 96407 07463 39377 37501 57017 80232 92127
60419 06149 08607 83848 49596 87090 26471 71233 71112 23240
53391 63547 75286 86109 87063 12518 33230 01243 90843 16523
14659 32388 28480 91804 09357 15500 34011 41809 51232 22716
71080 22946 41365 64443 84165 57694 24852 03834 07888 26383

58801 19102 29350 81043 22357 52477 61766 07293 36977 39012
90819 62709 38225 70065 60534 67856 54770 07709 11097 43028
86049 95153 13537 33641 54629 61617 92096 16519 20582 52222
35324 10145 58493 45575 48847 87370 19041 79228 40002 33232
43416 32555 06737 47782 93886 98410 60102 97293 08344 34436
02134 25569 13829 49924 70114 78118 21215 20337 24745 66477
26586 38102 02000 51071 30283 91194 72134 16452 74518 53687
36247 39980 39104 17741 33444 85347 99449 63746 77562 57180
46304 61728 32323 39942 42425 54506 35564 96661 09817 28921
21270 45211 00000

9923/7369 kHz, 22-07/23-07, 0800/0810 UTC
11100 00000 45617 19046 01159
37347 79207 33234 90386 53276 88425 68100 13198 32658 26707
40095 44762 91695 44280 21432 26495 14197 18851 68964 59350
63309 33032 05120 77206 92188 46414 71962 85968 83265 10693
00600 79336 70834 01304 63105 67164 26606 63996 99148 77364
12960 99794 34518 17270 33540 36761 33728 05424 35914 62026
53893 09703 45966 12507 92062 52732 38715 47746 43199 70524
75248 53328 10983 35273 60453 48295 38646 78246 01239 95003
52006 73720 69934 34859 31895 69878 02550 98369 58174 77622
86583 62953 92516 53238 18077 56933 92141 35833 32587 33168
71705 25508 39776 60740 55508 13185 16299 08159 87236 98032
36682 16494 89404 53426 46880 85893 89683 27380 10187 23921
56332 88393 80206 46113 00000

9923/7369 kHz, 29-07/30-07, 0800/0810 UTC
11100 00000 18956 26047 01279
76456 49873 03786 62387 00134 35224 80872 77134 08617 92296
44107 05608 27217 40200 26800 78194 02086 55763 18435 44058
62708 79751 64524 14127 55592 79048 46236 03004 72578 81974
25749 99493 22222 28939 68271 20434 17678 05615 76651 27502
79526 50814 99527 11713 76977 56270 98947 75273 55894 00486
88398 65480 27064 83861 77188 40372 13169 57280 82108 70792
77877 61333 92318 08576 85511 18380 98396 75528 64707 44623
21480 52901 74523 74402 03447 76034 96430 13868 44067 63872
00611 66244 96066 38022 60011 95864 54032 11053 10599 23159
98113 48720 81232 67785 78436 35809 41606 82097 51181 00269
41698 42131 02260 75341 41156 88294 19525 04370 52068 32952
99452 17956 43544 77100 99238 38186 81555 03301 70239 89584
02461 37074 33693 21491 43665 47125 00000

Link 09501 Pacific schedules

14428 kHz, 01-07, 0122 UTC. Late start / 17532 kHz, 02-07, 0100 UTC
11100 09501 00000 01071 02599
82176 92271 14126 27687 78878 86459 80930 53435 28265 46663
98602 76539 74804 21081 12409 19680 88717 19877 43457 14854
37188 89980 56450 10837 65436 39202 74005 13558 42340 83100
04748 95320 50298 13041 77364 33815 24020 08890 97800 66843
67923 44767 71785 73713 06839 61306 59880 19223 49700 02854
57235 21188 70908 43051 15239 27435 39062 47230 47243 13206
47737 45064 85572 34917 28005 11909 81975 01192 47378 82268
68729 47126 24866 43843 22577 22709 16832 85558 98674 31341
53343 98053 26759 79390 29690 50041 86696 22718 82772 88986
05629 21116 07037 39536 43871 36594 89648 98139 61782 36446
69595 47307 84769 87044 50398 37921 08634 49296 21128 13063
12424 11686 65405 71772 71008 21869 63082 96194 84534 02728
14282 90534 66973 63837 40492 05271 60931 44285 42396 45062
70923 47768 19127 83776 32285 55923 78639 35094 57921 30805
93883 52108 30070 42471 84456 54371 29279 82598 28444 05815
17772 50071 34114 91997 19398 19484 26167 70090 63351 28485
26224 90065 83850 44912 32238 10514 92953 99647 26522 57519

68717 96130 67070 00047 25868 32475 41884 40268 61178 97111
90950 42268 90743 23914 25606 47563 21339 17729 99936 50875
23044 86251 13924 34603 95325 39194 53010 85416 43764 40667
93786 41412 09615 25730 30471 43290 19387 17036 01883 87949
46624 02506 23587 07985 03095 59987 54908 25480 01544 39812
55491 53571 57233 41207 11099 44190 20426 43491 33335 05444
57020 77991 62992 37056 19517 51622 31680 57315 75505 58055
61461 19962 85849 37442 07151 44455 49783 70582 70983 08062
59072 18532 44332 73185 28455 43533 56163 71257 00000

17532 kHz, 03-07/04-07, 0100 UTC, F06a
File V_ZFD_~1 (1536 bytes) 44400 09501 00000 03017 00009

17532 kHz, 05-07, 0100 UTC Null message. Wrong 200Hz shift
16351 kHz, 05-07, 0110 UTC Null message. Wrong 200Hz shift
14428 kHz, 05-07, 0120 UTC 11100 09501 00000 05999 00049 00000 00000 00000 00000

14428 kHz, 08-07, 0100 UTC **Message, too weak to decode**
17532 kHz, 09-07, 0110 UTC
17532 kHz, 22-07, 0120 UTC
17532 kHz, 23-07, 0100 UTC **Idle -500Hz carrier**
16351/14428 kHz, 23-07, 0110/0120 UTC
These messages were reused two weeks later after their original transmissions, using different headers.

11100 09501 00000 08072 02539 (July 8th an 9th)
11100 09501 00000 22075 02539 (July 22nd and 23rd)
70203 80049 57332 70740 31467 22121 28383 39130 87438 13782
54202 48271 45766 30555 73799 75214 76744 24086 21260 44667
50273 50679 87170 29841 08846 80010 80910 57692 62517 13695
42272 60750 16777 68412 75826 42710 69272 03273 06488 49981
36314 96098 79695 66391 95109 98330 54678 73205 52652 23227
64206 41679 77207 47055 39298 50313 53337 27957 22297 44000
46399 72175 16765 77254 87444 02342 47641 08719 14483 07485
30073 39118 31009 79483 70394 09859 67774 65617 47661 04471
58702 91928 49187 20054 66911 37068 58532 00945 21767 61315
19362 51766 52910 20469 23621 72070 32194 19276 97469 79742
59468 84111 83404 15365 53151 59578 42011 44727 31519 58720
21779 01665 95663 21534 70428 38422 50038 61475 86168 75716
21545 04636 32347 69701 63095 51286 63899 38009 52575 14467
39070 12066 23164 15318 14810 07860 85931 39839 49316 32359
30670 86758 60125 67753 15868 61201 11218 00726 83800 93849
27567 88923 61642 90278 60557 81825 34558 40154 52726 38193
01701 40978 75261 07289 51063 16082 36680 66055 14105 31533
86147 29433 86111 41664 59855 76015 23209 17901 43907 56221
51976 40575 52147 75172 52594 58417 42358 67472 01466 45408
19289 06057 84246 09687 97927 12323 15225 34194 25467 59713
23985 53737 85400 87938 95292 98179 32187 70042 73143 56416
29911 99475 64905 40849 93393 89383 06498 57037 55179 01288
74549 08199 06836 45347 56450 89281 88012 19392 14271 50257
21685 78909 03452 33347 19038 55178 32226 13862 02402 63738
72690 99340 19704 70369 59488 66681 48853 06787 37013 41936
15513
72251 00000 (July 8th an 9th)
75251 00000 (July 22nd and 23rd)

11100 09501 00000 08073 01119 (July 8th an 9th)
11100 09501 00000 22076 01119 (July 22nd and 23rd)
33380 41607 42892 34479 65219 42937 76518 19030 77776 93291
59007 49419 41220 76887 53320 24804 48094 15214 35721 45623
71175 00056 79657 26750 97986 09819 56147 93162 77908 88850
49099 50327 42830 94423 09024 46467 87271 41097 93549 68923
18908 97117 68201 41781 15458 12564 65866 16947 48836 83914
28387 75880 62552 84731 78727 84154 13246 17144 97135 66030

12338 63817 99749 91244 28709 45105 43090 91193 38350 11053
02854 46690 31924 22964 00479 14498 16180 04200 75883 84822
70141 64901 29851 86941 42031 30331 84469 85172 97843 27511
35077 32357 57523 09850 92152 73051 79675 24449 36583 13618
80747 51764 36745 01390 99624 72330 00845 80107 43570
73109 00000 (July 8th an 9th)
76109 00000 (July 22nd and 23rd)

17532 kHz, 10-07/11-07, 0100 UTC, F06a
File V_ZFD_~1 (2048 bytes) 44400 09501 00000 10018 00009

17532 kHz, 12-07, 0100 UTC
11100 09501 00000 12074 00049 00000 00000 00000 00000

17532 kHz, 15-07/16-06, 0100 UTC
11100 09501 00000 15074 03839
39400 31577 08343 45893 98977 99573 46019 58590 63216 20540
29711 71249 97048 39927 65554 83974 23031 55735 44698 33238
02212 41651 52739 07845 57694 83565 46063 99363 70545 77909
37262 97974 02768 65236 56820 69655 27006 97507 83264 75662
67672 62495 58949 20226 83200 13759 33680 37409 44083 79624
03356 53069 86412 49601 35817 82844 45584 61684 01087 52121
99873 38965 48198 48909 78560 49005 95785 45562 14288 84391
28640 50286 44352 87930 17404 74370 90602 70898 03598 26076
72647 97805 17169 67128 34037 36095 18744 92732 86135 94223
83783 21077 99349 96554 70808 03235 96403 68515 40899 89420
27366 30429 20660 12525 31084 23494 25817 74881 12751 16313
87649 49182 92254 65442 49453 29504 03032 28367 25189 93354
46085 52363 37550 60709 28871 87678 77590 60939 43737 98461
53136 43601 65592 69884 18151 94008 73512 34895 00238 39521
25950 69035 68489 57497 44251 26762 08840 20848 84155 17713
99133 42122 99979 46345 01094 02062 31152 63397 11354 73571
65810 02602 38783 77038 61132 01086 00249 27928 25089 26909
52033 62612 89318 62157 99083 53351 27793 15053 49271 48376
00982 59492 04874 98006 30181 25474 08435 52738 31717 88836
85222 44246 65689 33755 49439 85226 78964 86423 66406 49036
47083 43369 87880 15042 44788 42835 02710 90639 99852 52665
70003 45864 09894 73125 27014 21542 26863 78115 88909 96907
38902 43183 82629 27637 04250 33804 82015 90224 16880 52349
36385 93648 08574 67174 09768 44258 17103 72287 72960 74817
75211 51012 15605 73651 00088 42097 70475 74826 88009 31699
67161 95299 43859 19686 57324 29982 00181 33694 78735 40652
05481 89378 50262 99644 86452 20285 14999 74272 13818 25794
73739 62905 26465 10572 75954 18641 93573 13955 60490 21519
19421 52717 63150 85205 20550 25657 33366 09083 29984 53432
27138 11693 08182 52090 68424 06465 65424 63723 96187 05660
25303 92698 39262 63484 84020 20881 86246 94295 45173 00305
42601 26842 34707 46723 92145 80481 25749 82471 05128 74300
27973 02088 60070 05093 21213 59122 71574 55112 38006 97575
41262 15554 24738 76407 74058 36698 36099 60541 26985 40642
42520 76820 82667 57580 55292 58334 64733 71544 99044 25566
37294 86561 86273 77794 55695 49159 73613 93179 60723 88152
04528 60990 33461 57655 68118 94387 52969 94252 28733 97216
23989 24271 06062 83234 66856 82080 10411 71229 86807 25374
62835 74381 00000

17532 kHz, 17-07/18-07, 0100 UTC, F06a
File ZFD_19 (1536 bytes) empty text header

17532 kHz, 19-07, 0100 UTC
11100 09501 00000 19075 00049 00000 00000 00000 00000

17532/16351/14428 kHz, 24-07/25-07, 0100/0115/0130 UTC, F06a
File ZFD_20 (2048 bytes) empty text header, wrong checksum

All transmissions contained the same binary file - in attachment - and indicated the same 0xce9f5151 checksum value in the headers, except that the file doesn't match that checksum; which would normally indicate a wrong or corrupted file. The file and transmissions look otherwise okay. (PY)

17532 kHz, 26-07, 0100 UTC
11100 09501 00000 01111 00041 00000 00000 00000 00000

Something is wrong with this F06 null. The 4th group, "01111", should start with the day of the month, 26 here, and the 5th group "00041" almost always ends with 9 after the group count, or very rarely 3 if a message follows originating FROM an embassy. I'm not sure if a value of 1 has ever even been seen before. Also, it would make little sense since this is a null and there is no actual message sent one way or another. (PY)

17532/16351/14428 kHz, 29-07, 0100/0110/0120 UTC
1 block, 1 msg, starting at block #3 (malformed, empty transmission)

17532/16351 kHz, 30-07, 0100/0110 UTC
11100 09501 00000 29077 03539
66046 47386 92294 75274 44391 96258 87918 37342 12670 18273
55695 37693 86511 71637 61930 59194 11960 20130 68362 99776
99836 98695 28890 99797 81302 84995 16073 18332 08051 94105
63370 88069 45558 38542 34023 03518 32845 20810 52547 22194
07181 50660 59757 83490 17156 04234 77256 74902 72586 67298
92350 00308 04659 29744 99295 29987 34771 23546 57838 37068
75507 21363 54979 50082 12174 37971 80893 76320 38333 01724
54947 75683 43797 88205 62757 89701 78478 33290 90213 55422
40574 67778 65420 58843 62494 40806 44477 07590 92985 24207
02051 27515 98881 15019 12670 12912 34924 78329 33675 85027
70203 80049 57332 70740 31467 22121 28383 39130 87438 13782
54202 48271 45766 30555 73799 75214 76744 24086 21260 44667
50273 50679 87170 29841 08846 80010 80910 57692 62517 13695
42272 60750 16777 68412 75826 42710 69272 03273 06488 49981
36314 96098 79695 66391 95109 98330 54678 73205 52652 23227
64206 41679 77207 47055 39298 50313 53337 27957 22297 44000
46399 72175 16765 77254 87444 02342 47641 08719 14483 07485
30073 39118 31009 79483 70394 09859 67774 65617 47661 04471
58702 91928 49187 20054 66911 37068 58532 00945 21767 61315
19362 51766 52910 20469 23621 72070 32194 19276 97469 79742
59468 84111 83404 15365 53151 59578 42011 44727 31519 58720
21779 01665 95663 21534 70428 38422 50038 61475 86168 75716
21545 04636 32347 69701 63095 51286 63899 38009 52575 14467
39070 12066 23164 15318 14810 07860 85931 39839 49316 32359
30670 86758 60125 67753 15868 61201 11218 00726 83800 93849
27567 88923 61642 90278 60557 81825 34558 40154 52726 38193
01701 40978 75261 07289 51063 16082 36680 66055 14105 31533
86147 29433 86111 41664 59855 76015 23209 17901 43907 56221
51976 40575 52147 75172 52594 58417 42358 67472 01466 45408
19289 06057 84246 09687 97927 12323 15225 34194 25467 59713
23985 53737 85400 87938 95292 98179 32187 70042 73143 56416
29911 99475 64905 40849 93393 89383 06498 57037 55179 01288
74549 08199 06836 45347 56450 89281 88012 19392 14271 50257
21685 78909 03452 33347 19038 55178 32226 13862 02402 63738
72690 99340 19704 70369 59488 66681 48853 06787 37013 41936
15513 77351 00000

This message reuses message #72/#75 again as most of its contents.

17532/16351/14428 kHz, 31-07, 0100/0115/0130 UTC, F06a
File V-ZFD21 (1905 bytes) 44400 09501 00000 31021 00003

Like had already happened in June, the 3 for last digit in the header indicates that this message would come from an embassy, and

again the file size isn't a round kB value. I still don't get it. (PY)

Link 10053

20475/18183/16319 kHz, 02-07, 1650/1700/1710 UTC
11166 10053 12457 02066 00049 00000 00000 00000 00000

20475/18183/16319 kHz, 09-07, 1650/1700/1710 UTC
Null message

20475/18183/16319 kHz, 16-07, 1650/1700/1710 UTC
11166 10053 13467 16001 00049 00000 00000 00000 00000

20475/18183/16319 kHz, 23-07, 1650/1700/1710 UTC
11166 10053 14785 23008 00049 00000 00000 00000 00000

20475/18183/16319 kHz, 30-07, 1650/1700/1710 UTC
11166 10053 15963 30001 00049 00000 00000 00000 00000

20988/18187/16169 kHz, 07-07, 1530/1540/1550 UTC
11166 10053 95123 07001 00049 00000 00000 00000 00000

20988/18187/16169 kHz, 14-07, 1530/1540/1550 UTC
11166 10053 14785 14021 00049 00000 00000 00000 00000

20988/18187/16169 kHz, 21-07, 1530/1540/1550 UTC
11166 10053 78912 21001 00049 00000 00000 00000 00000

20988/18187/16169 kHz, 28-07, 1530/1540/1550 UTC
11166 10053 13467 28001 00049 00000 00000 00000 00000

Link 10075

16207/13421/11481 kHz, 03-07, 1300/1310/1320 UTC
11166 10075 36985 03007 00049 00000 00000 00000 00000

16207/13421/11481 kHz, 10-07, 1300/1310/1320 UTC
11166 10075 95632 10001 00049 00000 00000 00000 00000

16207/13421/11481 kHz, 17-07, 1300/1310/1320 UTC
11166 10075 14785 17021 00049 00000 00000 00000 00000

16207/13421/11481 kHz, 24-07, 1300/1310/1320 UTC
11166 10075 74123 24001 00049 00000 00000 00000 00000

16207/13421/11481 kHz, 31-07, 1300/1310/1320 UTC
11166 10075 96412 31001 00049 00000 00000 00000 00000

Link 40023

18746/14572/13383 kHz, 10-07, 0915/0930/0945 UTC
11166 40023 13467 10001 00049 00000 00000 00000 00000

Link 30077

19847/15637/14367 kHz, 03-07, 1400/1410/1420 UTC
11166 30077 14785 03005 00049 00000 00000 00000 00000

19847/15637/14367 kHz, 10-07, 1400/1410/1420 UTC
11166 30077 95264 10001 00049 00000 00000 00000 00000

19847/15637/14367 kHz, 17-07, 1400/1410/1420 UTC
11166 30077 14785 17028 00049 00000 00000 00000 00000

19847/15637/14367 kHz, 24-07, 1400/1410/1420 UTC
11166 30077 45623 24001 00049 00000 00000 00000 00000

19847/15637/14367 kHz, 31-07, 1400/1410/1420 UTC
11166 30077 13467 31001 00049 00000 00000 00000 00000

Link 30154

18737/14919/12207 kHz, 02-07, 1230/1240/1250 UTC
11166 30154 12457 02077 00049 00000 00000 00000 00000

18737/14919/12207 kHz, 09-07, 1230/1240/1250 UTC
11166 30154 14785 09021 00049 00000 00000 00000 00000

18737/14919/12207 kHz, 16-07, 1230/1240/1250 UTC
11166 30154 13467 16001 00049 00000 00000 00000 00000

18737/14919/12207 kHz, 23-07, 1230/1240/1250 UTC
11166 30154 14785 23007 00049 00000 00000 00000 00000

18737/14919/12207 kHz, 30-07, 1230/1240/1250 UTC
11166 30154 14785 30001 00049 00000 00000 00000 00000

Link 60070

13971/11127/10211 kHz, 02-07, 0030/0040/0050 UTC
11166 60070 96325 02001 00049 00000 00000 00000 00000

13971/11127/10211 kHz, 09-07, 0030/0040/0050 UTC
11166 60070 85631 09001 00049 00000 00000 00000 00000

13971/11127/10211 kHz, 16-07, 0030/0040/0050 UTC
11166 60070 54879 16075 00049 00000 00000 00000 00000

13971/11127/10211 kHz, 23-07, 0030/0040/0050 UTC
11166 60070 13467 23001 00049 00000 00000 00000 00000

13971/11127/10211 kHz, 30-07, 0030/0040/0050 UTC
11166 60070 12457 30001 00049 00000 00000 00000 00000

Link 60081

20073/18621/14986 kHz, 03-07, 1300/1310/1320 UTC
11166 60081 14785 03021 00049 00000 00000 00000 00000

20073/18621/14986 kHz, 10-07, 1300/1310/1320 UTC
11166 60081 13467 10001 00049 00000 00000 00000 00000

20073/18621/14986 kHz, 17-07, 1300/1310/1320 UTC
11166 60081 36985 17019 00049 00000 00000 00000 00000

20073/18621/14986 kHz, 24-07, 1300/1310/1320 UTC
11166 60081 14789 24019 00049 00000 00000 00000 00000

20073/18621/14986 kHz, 31-07, 1300/1310/1320 UTC
11166 60081 13467 31001 00049 00000 00000 00000 00000

Link 70059

10538/8107/6791 kHz, 01-07, 0400/0410/0420 UTC
11166 70059 14725 01001 00049 00000 00000 00000 00000

10538/8107/6791 kHz, 15-07, 0400/0410/0420 UTC
11166 70059 14785 15028 00049 00000 00000 00000 00000

Link 70202

1-14 July: No transmissions

11159/9188/7669 kHz, 15-07, 0700/0715/0730 UTC File 44482 (binary contents)
10629/8138/6774 kHz, 15-07, 1200/1215/1230 UTC File 44482 (binary contents)

11159/9188/7669 kHz, 16-07, 0700/0710/0720 UTC
10629/8138/6774 kHz, 16-07, 1200/1210/1220 UTC
11166 70202 71490 15083 01539
88061 37846 82479 45565 92359 66951 87083 68957 36068 43744
84868 39785 63678 68982 46106 16805 80957 06434 39314 66014
09969 01739 44333 19808 53567 48643 02230 20202 80306 57276
75439 13337 65694 04168 16612 87436 50726 68695 69580 71409
03654 85639 50899 36285 95900 68542 85383 66664 28084 83555
94094 94380 67070 78457 58195 11560 80001 96545 07132 05253
76228 30070 04565 80843 93101 92903 30490 66417 86540 17150
82992 15262 12321 03352 48063 48714 09034 79007 10922 06516
18632 45072 07278 96886 05520 15137 37977 63478 60107 76973
95457 11425 97780 31120 75461 59652 89218 86219 72442 11648
82993 15770 82095 61878 06393 06000 59456 80036 55409 49534
06009 40304 09817 64555 84222 87828 34289 44139 82984 59587
51492 65449 82331 01843 98078 13491 90950 51359 99540 99092
54859 72577 24838 75822 60723 67937 06757 85514 82233 03534
38922 87093 42995 17284 85414 48391 94349 01812 63913 05637
31582 83151 00000

11166 70202 05813 15084 01579
19852 93419 57056 94989 12128 03866 61177 07762 00399 85144
56536 76157 34272 83402 39466 84842 27086 90413 69200 06819
03005 97770 32590 95750 02405 42585 66339 65896 25254 43125
28947 20561 17161 47830 39542 15036 27799 46148 25804 64939
96367 14618 48149 35908 43801 96657 92379 75574 76398 39462
47969 73764 30570 36484 14187 61857 13383 48910 01238 87242
18593 04581 18612 23809 22856 97788 67827 04416 91803 38394
81754 86261 50659 23694 77710 85106 99108 31480 16511 39286
75082 57733 84667 89433 97159 47372 41913 84876 40269 91518
01252 52620 24379 89696 33712 89875 20862 00410 14998 66048
06228 28541 56215 45154 17900 23002 85881 64562 91734 83073
75372 31044 85968 96874 25033 20025 21269 60403 53109 89014
91598 50576 54698 41121 25559 50707 22916 99605 02914 51874
49447 79413 55972 78589 46684 66604 10528 12240 58636 41645
46033 10702 52789 07475 79697 47596 10119 08299 04202 19609
55428 50040 33714 95308 95208 84155 00000

11159/9188/7669 kHz, 17-07, 0700/0715/0730 UTC File 44485 (binary contents)
10629/8138/6774 kHz, 17-07, 1200/1215/1230 UTC File 44485 (binary contents)

11159/9188/7669 kHz, 18-07, 0700/0710/0720 UTC
10629/8138/6774 kHz, 18-07, 1200/1210/1220 UTC
11166 70202 25849 17086 01839
18463 96060 18029 62834 11996 60064 19656 78515 25685 92714
42877 89301 27137 08180 14278 81804 92843 81096 42852 55078
63459 16654 39189 60282 60876 29763 80065 67403 40567 00493
54383 38708 77610 97970 51400 13628 09855 89918 77179 34747

86634 80022 10194 69607 96504 40330 32036 07985 72408 30843
94160 39354 97725 23514 06598 40208 61637 72820 59579 25934
37246 00108 14008 46925 80885 83891 21717 33617 76057 73305
61453 20140 70442 66877 01512 01271 79404 23825 24979 02374
54443 00067 78501 67014 40027 26114 30536 91940 67234 69057
50003 64113 57656 45813 41291 79472 35989 79835 96543 48132
74751 18467 51175 15688 19577 53119 53538 55325 68497 09484
84695 10418 03682 99937 89221 92294 99041 55349 02984 62880
52164 78468 88825 56880 13990 86082 16104 23204 14686 32129
45010 90314 09148 28953 01609 85196 90568 08904 54543 60616
45511 93436 29338 10377 48919 61937 21231 77243 22512 37428
92482 83239 04992 31366 65095 36986 07506 14704 44880 97783
52805 07409 37806 01120 21519 03630 44575 75286 54012 74695
44357 03802 81234 17126 03622 13322 83016 37860 71001 91721
97242 86181 00000

11166 70202 61473 17087 01299
52493 45304 29754 24223 33848 74369 93846 75128 23695 15735
38972 80424 89445 45403 14846 12202 84094 66117 99024 52450
63668 63358 20651 30560 68447 80196 78446 32001 60138 71919
57619 01642 32196 26393 75394 90126 35482 61068 09836 16766
86428 32605 91667 47351 49925 20010 63758 10373 14089 67265
37982 00031 99122 96355 04118 39517 67439 26646 70496 02978
27245 61549 41067 19609 46769 28409 58582 08321 21318 82548
68578 16404 60359 11415 83847 60632 86804 99756 54089 94251
65690 41777 70414 48284 04442 11198 59408 20581 91903 25166
46435 11073 68328 62951 92856 26647 43513 25364 36874 04086
05261 45828 92667 24520 85366 89066 87523 17813 75314 98301
41638 80329 08856 76944 20283 54521 53686 15686 13025 43758
79377 00941 19679 60866 93776 65569 47692 87127 00000

11159/9188/7669 kHz, 19-07, 0700/0715/0730 UTC
11166 70202 65214 18036 00049 00000 00000 00000 0000

11159/9188/7669 kHz, 22-07, 0700/0715/0730 UTC File 44488 (binary contents)
10629/8138/6774 kHz, 22-07, 1200/1215/1230 UTC File 44488 (binary contents)

11159/9188/7669 kHz, 23-07, 0700/0710/0720 UTC No transmissions
10629/8138/6774 kHz, 23-07, 1200/1210/1220 UTC No transmissions

11159/9188/7669 kHz, 24-07, 0700/0715/0730 UTC No transmissions
10629/8138/6774 kHz, 24-07, 1200/1215/1230 UTC No transmissions

11159/9188/7669 kHz, 25-07, 0700/0710/0720 UTC No transmissions
1**0629/8138/6774 kHz, 25-07, 1200/1210/1220 UTC** No transmissions

11159/9188/7669 kHz, 26-07, 0700/0710/0720 UTC 11166 70202 78532 26046 00049 00000 00000 00000 00000

11159/9188/7669 kHz, 29-07, 0700/0715/0730 UTC File 44490 (binary contents)
10629/8138/6774 kHz, 29-07, 1200/1215/1230 UTC File 44490 (binary contents)

11159/9188/7669 kHz, 30-07, 0700/0710/0720 UTC
10629/8138/6774 kHz, 30-07, 1200/1210/1220 UTC
11166 70202 35947 29091 02039
60488 24597 53082 26545 30703 69042 40122 75553 93516 15618
53779 39049 43599 11762 76730 32841 47077 98534 41407 29697
95900 51192 76590 11103 60351 10471 07628 87070 81881 15548
64947 57468 73478 74587 80559 13282 19726 33828 77235 01253
93769 31143 80049 00343 33360 45003 04972 83443 43164 74797
04199 62781 15539 13435 72909 42450 86941 98164 47135 26509
72183 50565 47431 56089 43686 41620 48035 73935 47966 42841
76202 39832 76493 49352 71401 45340 33147 85894 59065 01295
65431 31670 18580 96485 51657 24975 50192 50978 61256 33556

70540 12488 30439 01626 91478 69266 20367 09473 61894 77928
50029 06614 77195 29659 21021 04414 86170 03230 76394 39113
49887 78275 60791 41212 32340 07264 74019 72130 27518 69586
35283 14094 52587 56225 00242 24186 61872 58412 98087 88483
61332 58744 80835 37245 28202 48163 01998 07056 65508 17260
66852 60895 46126 95331 21468 02043 26083 35629 72702 42777
31779 70234 56325 13790 50831 83001 95493 25265 81207 74005
16729 15556 18359 13930 15616 48393 85019 11836 89383 44572
33376 44743 78577 59041 74284 22470 84997 39347 13224 86160
58092 26358 97680 63945 66997 83216 05642 32160 00412 63444
29892 55582 61484 54152 37795 05093 49915 55282 11259 76230
48449 91201 00000

11166 70202 54281 29092 01999
16415 26830 92079 34907 10484 13266 65155 07026 16007 21688
92065 69368 85724 55521 63535 18605 93200 08638 54173 29023
91094 25457 66727 92558 05074 39277 67453 14393 05563 99748
67288 37563 24506 25466 28505 94998 09347 42576 01554 12450
31389 95376 21751 10727 90752 39808 20539 80692 85090 55804
30961 29450 34262 39426 92085 21154 78160 60714 82025 60893
89860 98207 34265 95074 71295 86053 16978 26749 23634 34656
80017 69316 09552 10800 99269 87046 49594 88178 73059 95855
19798 04273 50292 22770 42774 84516 95026 47524 89435 19681
17153 74721 33557 07424 23877 10001 26353 93932 71693 38642
83264 76601 23533 30055 00141 53688 40770 16579 40996 31871
64786 20039 64549 27663 67770 24498 81707 23607 77442 18629
61202 65187 05392 56159 25554 09417 33719 07818 04557 61005
39662 03225 38472 57072 62898 86157 48114 86332 45215 31634
14018 53685 97221 98250 31879 26160 71810 14213 36450 21139
49036 20493 11076 22809 62111 19550 25069 37768 19200 03066
66101 25736 00706 57106 59800 66291 36725 68178 93743 47588
94378 78586 88032 87984 29678 64559 79638 26507 83640 35554
12703 43115 27326 78199 51982 69316 09552 10800 99269 87046
49594 88178 73091 53151 67457 00958 38106 92197 00000

11159/9188/7669 kHz, 31-07, 0700/0715/0730 UTC File 44493 (binary contents)
10629/8138/6774 kHz, 31-07, 1200/1215/1230 UTC File 44493 (binary contents)

Link 80214

16127/12229/9958 kHz, 04-07, 1330/1340/1350 UTC
11166 80214 54027 04002 00049 00000 00000 00000 00000

16127/12229/9958 kHz, 11-07, 1330/1340/1350 UTC
11166 80214 36849 11035 00049 00000 00000 00000 00000

16127/12229/9958 kHz, 18-07, 1330/1340/1350 UTC
11166 80214 12859 18093 00049 00000 00000 00000 00000

16127/12229/9958 kHz, 25-07, 1330/1340/1350 UTC
11166 80214 78652 25036 00049 00000 00000 00000 00000

F06a

4923/5875/7483 kHz, 04-07/05-07, 0400/0415/0430 UTC File 04440 (binary contents)
4923/5875/7483 kHz, 11-07/12-07, 0400/0415/0430 UTC File 04441 (binary contents)
4923/5875/7483 kHz, 18-07/19-07, 0400/0415/0430 UTC File 04442 (binary contents)
4923/5875/7483 kHz, 25-07/26-07, 0400/0415/0430 UTC File 04443 (binary contents)

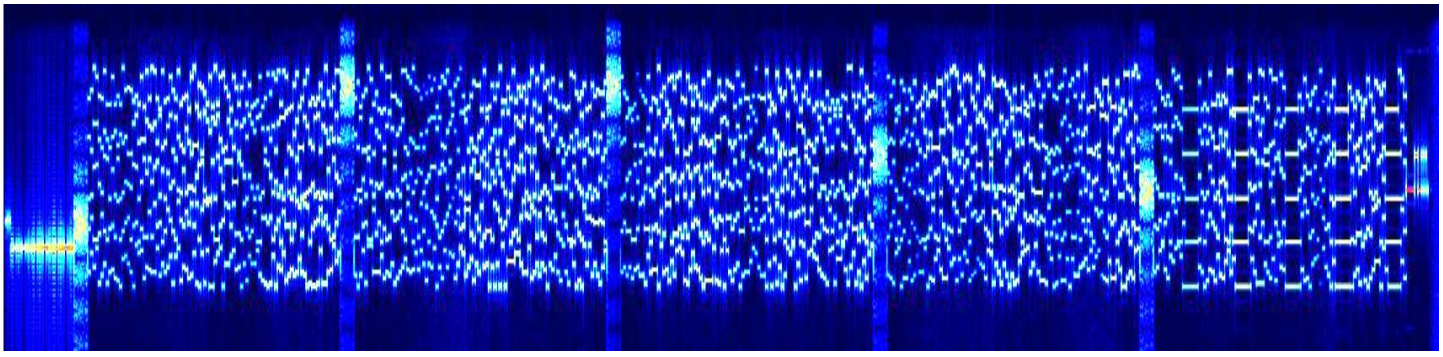
15611/14379/13389 kHz, 26-07, 1900/1915/1930 UTC File 04432 (binary contents)
12194/11415/10311 kHz, 27-07, 0600/0615/0630 UTC File 04432 (binary contents)

Link 00000 files and messages.
These F06a schedules replaced the scheduled missing link 00000 Mon/Tue transmissions at 0800/0820/0830 UTC and the missing link 70202 transmissions.

13396/11123/9089 kHz, 01-07, 0700/0715/0730 UTC	Message
13396/11123/9089 kHz, 03-07, 0700/0715/0730 UTC	File 44460 (binary contents)
13396/11123/9089 kHz, 05-07, 0700/0715/0730 UTC	File 44461 (binary contents)
13396/11123/9089 kHz, 08-07, 0700/0715/0730 UTC	11100 00000 61497 05037 00049 36874 24685 95874 00000
13396/11123/9089 kHz, 09-07, 0700/0715/0730 UTC	File 44462 (binary contents)
13396/11123/9089 kHz, 10-07, 0700/0715/0730 UTC	11100 00000 52693 09003 00039 45762 02764 000000
13396/11123/9089 kHz, 11-07, 0700/0715/0730 UTC	Files 44463 and 44464 (binary contents)
13396/11123/9089 kHz, 12-07, 0700/0715/0730 UTC	Files 47465 (binary contents)
10176/9136/6837 kHz, 08-07, 0800/0815/0830 UTC	Files 44450 and 44451 (binary contents)
10176/9136/6837 kHz, 09-07, 0800/0815/0830 UTC	Files 44455 and 44456 (binary contents)
10176/9136/6837 kHz, 10-07, 0800/0815/0830 UTC	Files 44460 and 44461 (binary contents)
10176/9136/6837 kHz, 11-07, 0800/0815/0830 UTC	Files 44466 and 44467 (binary contents)
10176/9136/6837 kHz, 12-07, 0800/0815/0830 UTC	Files 44472 and 44473 (binary contents)
10176/9136/6837 kHz, 13-07, 0800/0815/0830 UTC	Files 44479 and 44480 (binary contents)
10176/9136/6837 kHz, 14-07, 0800/0815/0830 UTC	Files 44486 (empty header, binary contents) and 44485 (Header 44400 00000 76491 11078 00009, binary contents)
14388/12107/9951 kHz, 08-07, 0900/0915/0930 UTC	11100 00000 61497 05037 00049 36874 24685 95874 00000
14388/12107/9951 kHz, 09-07, 0900/0915/0930 UTC	Files 44455 and 44456 (binary contents)
14388/12107/9951 kHz, 10-07, 0900/0915/0930 UTC	11100 00000 52693 09003 00039 45762 02764 00000
14388/12107/9951 kHz, 11-07, 0900/0915/0930 UTC	Files 44463 and 44464 (binary contents)
14388/12107/9951 kHz, 12-07, 0900/0915/0930 UTC	Files 47465 (binary contents)
9976/8087/5946 kHz, 08-07, 1540/1555/1610 UTC	Files 44452 and 44453 (binary contents)
9976/8087/5946 kHz, 09-07, 1540/1555/1610 UTC	Files 44457 and 44458 (binary contents)
9976/8087/5946 kHz, 10-07, 1540/1555/1610 UTC	Files 44462 and 44463 (binary contents)
9976/8087/5946 kHz, 11-07, 1540/1555/1610 UTC	Files 44468 and 44469 (binary contents)
9976/8087/5946 kHz, 12-07, 1540/1555/1610 UTC	Files 44474 and 44475 (binary contents)
9976/8087/5946 kHz, 13-07, 1540/1555/1610 UTC	Files 44481 and 44482 (binary contents)
9976/8087/5946 kHz, 14-07, 1540/1555/1610 UTC	Files 44486 and 44487 (binary contents)
13855/11627/10576 kHz, 23-07, 0700/0715/0730 UTC	Files 44401 (268 bytes) and 44402 (299 bytes). Binary contents
13855/11627/10576 kHz, 24-07, 0700/0715/0730 UTC	Files 44401 (268 bytes) and 44402 (299 bytes). Binary contents
13855/11627/10576 kHz, 25-07, 0700/0715/0730 UTC	Files 44403 (385 bytes) and 44404 (455 bytes). Binary contents

F07

17436 kHz, 02-07/04-07/09-07/11-07/16-07/18-07/24-07/26-07/31-07 2000 UTC
16348 kHz, 02-07/04-07/09-07/11-07/16-07/18-07/24-07/26-07/31-07 2010 UTC
15968 kHz, 02-07/04-07/09-07/11-07/16-07/18-07/24-07/26-07/31-07 2020 UTC
14852 kHz, 02-07/04-07/09-07/11-07/16-07/18-07/24-07/26-07/31-07 2030 UTC
13961 kHz, 02-07/04-07/09-07/11-07/16-07/18-07/24-07/26-07/31-07 2040 UTC
13373 kHz, 02-07/04-07/09-07/11-07/16-07/18-07/24-07/26-07/31-07 2050 UTC



HM01 - Dirección General de Inteligencia

10860 kHz, 01-07, 0615 UTC
Groups 81135 03586 31573 76515 73752 22161
Files 50278113.F1C 31140358.TXT 07513157.TXT 07437651.TXT 65857375.TXT 80562216.TXT
Callsign QWERTY01

10860 kHz, 02-07, 0525 UTC
Groups 81136 03587 31574 76516 73753 22161
Files 50278113.F1C 31140358.TXT 07513157.TXT 07437651.TXT 65857375.TXT 80562216.TXT
Callsign QWERTY01

3/8 July: repeat of 2 July

10860 kHz, 09-07, 0500 UTC
Groups 81137 03588 31575 76517 73754 22162
Files 50278113.F1C 31140358.TXT 07513157.TXT 07437651.TXT 65857375.TXT 80562216.TXT
Callsign QWERTY01

10860 kHz, 10-07, 0457 UTC
13435 kHz, 11-07, 0728 UTC. Repeat of 10 July
Groups 53431 03589 31576 76518 73755 22163
Files 37565343.TXT 31140358.TXT 07513157.TXT 07437651.TXT 65857375.TXT 80562216.TXT
Callsign QWERTY01

10860 kHz, 12-07, 0504 UTC. Radio Habana Cuba news in Spanish. Off at 0516z. HM01 at 0517z.
Groups 53432 34881 67611 62161 73757 22165
Files 37565343.TXT 31413488.TXT 05886761.TXT 36656216.TXT 65857375.TXT 80562216.TXT
Callsign QWERTY01

10860 kHz, 13-07, 0500 UTC
Groups 53434 34883 67612 62163 73759 22167
Files 37565343.TXT 31413488.TXT 05886761.TXT 36656216.TXT 65857375.TXT 80562216.TXT
Callsign QWERTY01

10860 kHz, 14-07, 0530 UTC
Groups 53435 34884 67613 62164 37541 14321
Files 37565343.TXT 31413488.TXT 05886761.TXT 36656216.TXT 28533754.TXT 07511432.TXT
Callsign QWERTY01

10860 kHz, 15-07, 0550 UTC
Groups 53437 34886 67615 62166 37542 14322
Files 37565343.TXT 31413488.TXT 05886761.TXT 36656216.TXT 28533754.TXT 07511432.TXT
Callsign QWERTY01

10860 kHz, 16-07, 0505 UTC
Groups 34262 17651 26021 62169 37545 14325
Files 71153426.TXT 70541765.TXT 18702602.TXT 36656216.TXT 28533754.TXT 07511432.TXT
Callsign QWERTY01

10860 kHz, 17-07, 0500 UTC
Groups 34264 17653 26022 14751 37547 14327
Files 71153426.TXT 70541765.TXT 18702602.TXT 27811475.TXT 28533754.TXT 07511432.TXT
Callsign QWERTY01

10860 kHz, 18-07, 0545 UTC
Groups 34266 17655 26024 14753 40151 36251
Files 71153426.TXT 70541765.TXT 18702602.TXT 27811475.TXT 06084015.TXT 78273625.TXT
Callsign QWERTY01

10860 kHz, 19-07, 0526 UTC
Groups 34267 17656 26025 14754 40152 36251
Files 71153426.TXT 70541765.TXT 18702602.TXT 27811475.TXT 06084015.TXT 78273625.TXT
Callsign QWERTY01

10860 kHz, 20-07, 0530 UTC
Groups 34268 17657 26026 14755 40153 36252
Files 71153426.TXT 70541765.TXT 18702602.TXT 27811475.TXT 06084015.TXT 78273625.TXT
Callsign QWERTY01

10860 kHz, 21-07, 0515 UTC
Groups 35311 15051 26027 14756 40154 36253
Files 78273625.TXT 18061505.TXT 18702602.TXT 27811475.TXT 06084015.TXT 78273625.TXT
Callsign QWERTY01

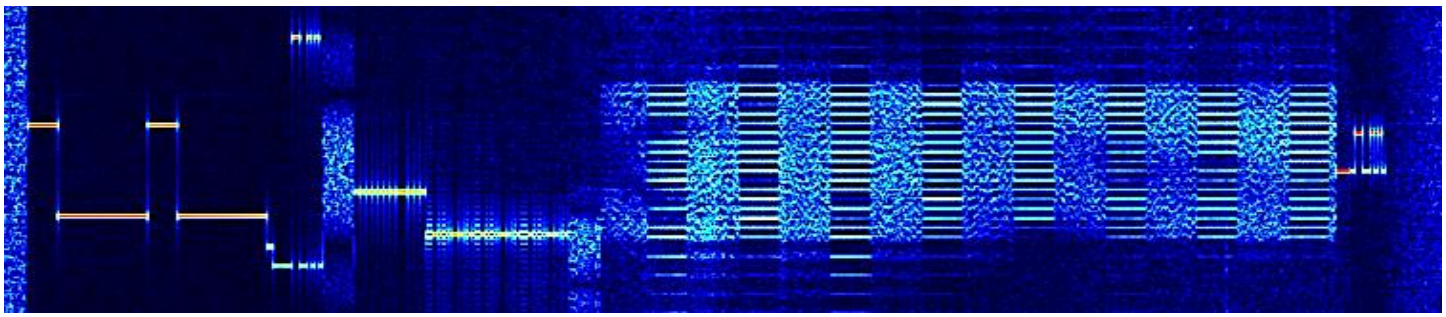
10860 kHz, 22-07, 0510 UTC
Groups 35312 15052 41121 14758 40156 36255
Files 78273625.TXT 18061505.TXT 11424112.TXT 27811475.TXT 06084015.TXT 78273625.TXT
Callsign QWERTY01

10860 kHz, 23-07, 0514 UTC
Radio Habana Cuba cut off at 0517z. Carrier till 0519z, then HM01. Repeat of 22 July.

23-31 July. Repeat of 22 July.
28-07, 0520 UTC. Heavily distorted audio

P07

9368 kHz, 03-07/07-07/10-07/14-07/17-07/21-07/24-07/28-07/31-07, 1400 UTC
8185 kHz, 03-07/07-07/10-07/14-07/17-07/21-07/24-07/28-07/31-07, 1410 UTC
7704 kHz, 03-07/07-07/10-07/14-07/17-07/21-07/24-07/28-07/31-07, 1420 UTC
6872 kHz, 03-07/07-07/10-07/14-07/17-07/21-07/24-07/28-07/31-07, 1430 UTC
5861 kHz, 03-07/07-07/10-07/14-07/17-07/21-07/24-07/28-07/31-07, 1440 UTC
5386 kHz, 03-07/07-07/10-07/14-07/17-07/21-07/24-07/28-07/31-07, 1450 UTC



Q26 - Chinese military

13200 kHz, 15-07, 0951 UTC, 4+4 QPSK 75/1000 LSB
XWR 91 45 0715 1720
7413---4777
4836 7169 8270 6058 93 2614 3725 3271 4382
5493 5604 0492 9837 0948 8726 2160 1059 7260
6159 9482 0593 8371 1604 3826 4937 5084 1762 2837
3948 4059 2715 5160 7382 8493 6271 0615 9504 1072
1960 4293 5304 3182 6415 8637 9748 0859 9450 0561
1672 2783 7526 3894 5016 6127 4905 8349 7238 0642
9531 2864 3975 1753 4086 6208 7319 8420 9346 0457
1568 2679 5197 3780 5902 6013 4891 8235 7125 9108
8097 1320 2431 0219 3542 5764 6875 7986 6328 7439
8540
WK NR 2049

XPA1

13368/12168/11168 kHz, 03-07/05-07, 1210/1230/1250 UTC
311 311 311 1 311 311 311 1 311 311 311 1
07866 00124 11860 18131 91352 05549 86290 91285 57899 69691
22062 73490 85237 78379 50735 38026 22190 68486 84653 83033
77607 38430 39824 34334 39509 64847 29223 56872 90860 40124
14656 10372 39288 34944 70677 88993 00691 54016 65502 37284
79241 46416 01041 04362 69188 51897 65516 22518 51943 20032
56298 35053 10904 23307 92190 59056 86973 90119 42998 35123
25286 90246 71045 65194 56137 63722 65907 18456 00004 13844
57790 46879 57620 44221 45085 55616 68180 78160 51430 56453
39701 95449 81191 81083 36303 15863 24845 63925 79716 28091
97859 16671 41246 92448 80212 81590 33973 55060 34161 95615
53063 58174 25331 75963 65186 93455 20168 03086 81129 53829
02634 38471 42540 29516 06170 29851 24816 58370 12059 35661
67379 25542 79466 65984 28661 82090 46627

13368/12168/11168 kHz, 10-07, 1210/1230/1250 UTC
311 311 311 000
01990 00001 00000 35662

13368/12168/11168 kHz, 12-07, 1210/1230/1250 UTC
311 311 311 000
06603 00001 00000 35656

13368/12168/11168 kHz, 17-07/19-09/24-07/26-07, 1210/1230/1250 UTC
311 311 311 1 311 311 311 1 311 311 311 1
00560 00137 17045 70903 00165 47215 85183 88666 31380 06672
80721 80541 48453 35515 49150 77187 66626 99815 85087 83920
82014 73191 19509 80196 24879 44926 54271 45271 96969 22466
70647 12168 62543 41721 74227 91817 05186 87512 44028 69650
26572 75330 59010 08011 30059 90483 63025 40515 83738 67465
49158 54481 69400 02922 53444 58573 06421 70693 00878 59183
33189 71704 13620 68980 48067 16918 25169 23728 93705 66127
41769 23297 88187 98829 62705 01046 59799 21335 38832 12406
12266 30279 42320 89874 07326 23145 71598 98597 18232 29894
56704 35462 54440 00759 53250 30886 97744 93514 62993 23983
90759 66922 08071 55899 22074 65305 87113 35120 47932 22286
72085 48571 82512 79556 74332 66057 22788 46146 10561 26009
89026 81397 98343 54226 25886 71370 28337 46574 82440 76940
98532 26063 61586 75026 34627 66484 34303 21074 18528 77150

13368/12168/11168 kHz, 31-07, 1210/1230/1250 UTC
311 311 311 000
03539 00001 00000 40256

XPA2

12148/13448/13948 kHz, 0700/0720/0740 UTC

12148/13448/13948 kHz, 01-07/03-07, 0700/0720/0740 UTC
09553 00128 72277 27121 74057 29016 01477 07368 97183 56627
24815 83699 84305 44635 20881 69745 25016 53720 14561 65534
88928 26950 43425 70952 20530 54867 57830 13522 46796 91612
45996 66782 07017 97921 36405 76758 32487 34223 75741 43665
98908 38628 08437 79847 62549 14593 20603 32149 51362 63429
33419 61563 83122 55128 68744 64023 37405 42924 26383 54754
13488 98427 33049 31752 89485 70861 10349 32926 70812 97733
41413 26896 33104 38630 20495 18785 70726 10763 58271 74343

17894 89073 63084 83139 36082 45962 34830 71016 38232 41445
98205 07444 01365 74985 41661 72204 31002 54941 95071 28075
65181 83849 00510 09765 29002 95196 58485 06654 46681 76093
85432 28474 10788 09503 37824 08282 80006 65362 07932 78735
57033 42853 55385 30377 34255 01536 68567 72367 59913 08315
25745

12148/13448/13948 kHz, 08-07, 0700/0720/0740 UTC
05944 00001 00000 37661

12148/13448/13948 kHz, 10-07, 0700/0720/0740 UTC
07841 00001 00000 35663

12148/13448/13948 kHz, 15-07/17-07/22-07/24-07, 0700/0720/0740 UTC
03032 00130 08806 65118 06078 78821 00848 03383 33831 36436
16612 24608 73566 63382 00388 68803 13883 86563 55161 03682
03630 86880 22332 86783 95650 37151 68150 29432 89426 97808
85796 25056 53656 62886 27990 00874 88000 05104 58163 35088
72485 03583 68303 06883 38409 51757 80777 21805 06813 85583
00304 62000 60882 76673 80880 80330 38637 36002 51528 90266
06010 03362 37501 56088 03818 02458 02692 24760 68680 46682
52887 78308 83850 60255 20082 08425 02844 62651 14493 11521
55276 90794 13714 60843 39086 25267 56820 92813 79672 01457
02192 88490 70157 64235 50949 48324 41953 08538 58260 31791
41551 57907 12302 72290 64232 25489 27150 18852 15503 85934
30449 41090 70927 67664 74221 39315 72292 37928 50822 91093
75662 78008 38358 48933 31916 90560 74699 95236 02992 79987
20337 88165 57742

12148/13448/13948 kHz, 29-07, 0700/0720/0740 UTC
05154 00001 00000 33662

12148/13448/13948 kHz, 31-07, 0700/0720/0740 UTC
09048 00001 00000 35265

16296/14981/13953 kHz 0910/0930/0950 UTC

16296/14981/13953 kHz, 01-07, 0910/0930/0950 UTC
09141 00001 00000 32265

16296/14981/13953 kHz, 03-07, 0910/0930/0950 UTC
04574 00001 00000 35663

16296/14981/13953 kHz, 08-07/10-07/15-07/17-07, 0910/0930/0950 UTC
09276 00154 39151 88378 83960 47530 92059 07521 46478 92376
82505 02043 66908 69667 96084 85872 47622 89878 60059 23593
22217 44666 14855 37069 84242 61894 20132 46582 94116 51788
62830 00693 43211 68482 34265 13260 94042 23705 78313 61206
86524 02895 38462 79577 60766 43153 27368 39804 75681 08449
07164 41726 11296 14925 90627 10967 45384 80398 47261 47702
68612 55116 48215 95025 88362 95719 68733 28171 39466 58211
47133 90856 27661 32761 31563 01763 26312 26009 50006 73592
04475 30836 54935 41240 78273 69252 00508 60192 42182 77522
80472 85032 59647 88745 19967 80082 68147 68024 83374 64897
56736 88937 65317 87990 26488 03972 57238 89414 21277 27675
56076 02608 93265 37388 74228 04357 27383 61636 92329 26076
32060 34196 18477 27290 11670 08811 68252 81599 98891 76500
41050 26498 98975 56314 08713 06985 30989 01610 44783 79620
63502 94529 43145 10898 49837 72878 89761 68463 13831 11274
04469 37088 82162 52782 43307 02942 53543

16296/14981/13953 kHz, 22-07, 0910/0930/0950 UTC
06676 00001 00000 37265

16296/14981/13953 kHz, 24-07, 0910/0930/0950 UTC
06180 00001 00000 31666

16296/14981/13953 kHz, 29-07/31-07, 0910/0930/0950 UTC
00592 00189 41662 03431 41362 22042 67476 27181 82785 50337
06947 87472 53669 03009 53550 49779 00104 19629 24945 97044
01050 37631 53622 84839 94667 88930 28715 32901 34392 69276
15223 34963 99503 34694 33774 25339 33511 33535 15484 69803
86463 66779 53491 82997 55223 99872 56918 20525 47351 02760
52332 48284 14251 12849 58135 44375 34958 35469 81039 85852
62924 36480 79481 49926 83322 26829 69027 39007 43053 26052
70980 10695 59308 41861 70462 84874 21631 45291 28179 20724
52879 77670 18825 13827 22339 61515 46013 54290 63195 71871
19801 70144 35086 94897 61587 09216 08478 47688 70171 01556
29272 00106 73940 24934 84938 38550 89066 25633 71706 74886
56694 61822 24770 57496 51958 90373 79911 09001 87998 51011
59068 80817 20473 18921 95063 52308 70345 21325 58312 66862
08588 62333 59768 49800 88502 60832 40187 75299 04269 96192
75314 54470 63821 22504 00556 95208 88412 69286 55769 48764
82578 75257 57139 39695 45743 93214 62341 69061 01205 03397
97927 15125 64342 17343 51694 94949 79669 03488 44458 19045
21009 77886 19747 47560 26631 52319 88801 33336 11558 15863
15502 68000 84847 33289 23260 13370 15366 17093 40179 81750
65441 01412

13954/12154/11454 kHz, 1500/1520/1540 UTC

13954/12154/11454 kHz, 01-07/06-07, 1500/1520/1540 UTC
06442 00178 97144 07821 02374 61467 78224 05384 52824 37761
00238 54229 48825 27481 66076 68968 75749 43793 44698 49785
93342 33112 92235 53535 98656 51579 30557 50596 52929 14561
37354 25480 26166 51670 93482 86371 80041 81468 52461 25359
63733 71242 03893 95887 98743 66172 41944 49878 86153 48644
17985 98541 46502 01045 83487 22354 87234 60593 52350 44766
94461 09616 93252 65921 53525 44725 74636 37130 99336 29659
74468 59608 90128 98076 43801 52098 00196 83227 99828 01045
44800 49702 11534 03003 13851 17321 74078 52841 92476 14288
13054 05790 33614 62402 21240 41384 15893 02749 46368 69528
31825 16401 56397 86414 44865 71692 06526 00387 39559 70699
37891 52791 75326 17294 82819 03975 97552 43495 32500 30692
57790 21628 50742 69996 21331 88937 96178 50998 40731 93940
37921 39241 34131 89485 71288 10020 00071 86159 03185 53766
91542 37138 88950 01330 04042 99257 83394 15574 17860 57453
98628 88616 86369 75427 20821 00224320683 20884 35293 60624
76195 28234 43911 32796 86146 26646 99779 04304 68864 29177
58723 80691 37457 98402 32963 46829 67668 34376 75993 85996
05212

13954/12154/11454 kHz, 08-07, 1500/1520/1540 UTC
05668 00001 00000 40653

13954/12154/11454 kHz, 13-07, 1500/1520/1540 UTC
09535 00001 00000 36264

13954/12154/11454 kHz, 15-07/20-07, 1500/1520/1540 UTC
00591 00199 61650 34681 23594 13817 12499 43161 33374 47711
92532 81207 64229 66687 89455 67917 13140 31144 73609 92701
58793 43161 02690 25095 56619 40257 82993 15921 98875 74967
99197 09491 79453 11234 94007 38005 38630 84486 21885 93618
10479 22644 67040 96125 05014 36513 43337 86763 68946 11464
50385 73799 88199 88694 49364 05759 97285 46108 39655 08086
41623 63567 66595 16872 58365 53552 80188 06799 89997 28620
42596 31641 10844 22557 26709 88876 80487 17233 46735 91069

82389 19398 17934 26193 31726 75274 30489 93603 32751 03698
51280 38215 07372 94851 88504 94996 72216 47732 13212 02856
72255 71029 20641 00649 27487 09527 23094 08235 36496 14843
22043 80057 50466 07576 10642 41189 27004 27374 52592 42948
79701 61265 76912 70031 44920 39328 19313 88467 95261 52502
01886 13944 91465 49528 39416 79880 35363 83346 08939 30170
04517 59795 38442 30702 97814 08976 51198 29877 19754 32924
93844 98321 32690 76095 82636 39073 03711 98994 07407 41040
36481 53273 56976 16173 73148 99135 75796 94143 18062 57523
72117 62583 85037 03483 99908 36220 17863 95258 35399 65169
50766 56947 80050 36275 74561 06956 37648 78045 87157 43849
59099 37068 03909 97748 44579 67545 99569 20280 68479 87836
79147 76223

13954/12154/11454 kHz, 22-07, 1500/1520/1540 UTC
04588 00001 00000 37664

13954/12154/11454 kHz, 27-07, 1500/1520/1540 UTC
01618 00001 00000 40252

13954/12154/11454 kHz, 29-07, 1500/1520/1540 UTC
09113 00233 97452 53640 46818 75693 62278 49037 27342 81167
06730 21584 58138 01542 11579 72953 12340 18883 64424 38830
45569 69901 71839 82315 79606 69103 10260 43476 96641 17280
27461 21388 08434 76695 54266 34006 61575 93717 57991 95219
52754 81677 15362 28312 49433 92740 72668 95385 68612 89702
14901 78087 53719 92326 42842 52204 48638 32913 05726 13659
16982 81703 30924 50622 41893 68953 53475 28602 32607 40598
41133 59522 20879 41263 08739 15978 76084 60754 34582 90611
34681 49074 81325 87491 48482 41238 24021 02647 37588 71270
65933 67138 51896 08497 05513 82446 99058 62247 48515 78869
97327 27130 81481 24061 76498 40950 45406 26458 77885 40849
01066 94040 27182 08489 98353 01273 67684 73095 64627 18499
48737 21340 48197 62879 30656 49242 28711 70928 82873 47996
98804 69764 73430 00172 53050 74442 64872 88539 65573 38586
31147 22210 06254 30523 20582 41143 43376 92748 34224 49653
43455 26610 71719 35248 20875 07822 54145 88193 94087 54634
25394 06187 94113 49929 47788 83287 74107 07908 53029 01004
03439 50108 48558 11055 75145 96724 28291 44255 80173 56446
02467 34227 30673 46477 15546 91579 51405 07495 25115 25439
45538 98641 66740 06933 25833 04993 67621 70344 08967 59917
26196 08767 83778 77999 01116 45081 46603 46694 37833 19668
73724 40242 88632 96952 24559 74467 73034 55191 92439 20982
97197 06295 72977 32452 71826 95140 72212 75357 79525 82547
23715 37700 28705 56293 70402 41707

10243/11143/12143 kHz, 0500/0520/0540 UTC

10243/11143/12143 kHz, 02-07/04-07, 0500/0520/0540 UTC
00406 00132 12632 71082 23131 65444 36468 81945 30670 07560
13315 79609 19113 08978 94514 50668 73481 97241 13371 19043
12563 24453 89764 21852 62345 29083 42011 83621 30368 93453
71870 46705 30304 46075 75424 02478 07250 13664 27327 44471
57064 71635 99197 67080 10962 08889 74148 17313 50959 89993
00669 31918 95034 22460 87245 30065 50632 58418 74022 45693
22200 88017 50482 75251 84795 95969 19306 64528 05153 19458
04843 30449 07989 96801 54638 86199 42949 68900 40938 73294
83722 63830 97758 27365 20253 55614 65326 27860 12104 81876
50043 41509 80006 95066 62783 70067 53150 43490 67327 54587
44473 14792 50209 78669 11642 76480 26182 29055 40101 14393
14033 27459 14782 66467 32561 96670 41421 97564 39242 95025
19642 94952 54879 66695 99102 03196 97179 17639 63497 94106
43445 79850 74976 60674 62704

10243/11143/12143 kHz, 09-07, 0500/0520/0540 UTC
09365 00001 00000 35267

10243/11143/12143 kHz, 11-07, 0500/0520/0540 UTC
06267 00001 00000 3564

10243/11143/12143 kHz, 16-07/18-07, 0500/0520/0540 UTC
00105 00065 12241 09119 05047 84521 37764 39144 54671 22057
88477 40371 52131 54932 98368 71419 99391 96727 15837 10012
92208 58822 38503 74408 55029 03621 90802 46481 20690 43398
10041 02070 80144 52463 86366 00885 94541 45451 01177 38172
06942 03727 45289 99038 65971 32813 53917 59146 63914 55076
37333 06525 75052 30862 92095 28792 16517 38511 14520 93001
11618 27418 73595 08419 28256 03674 66269 67026

10243/11143/12143 kHz, 23-07, 0500/0520/0540 UTC
07379 00001 00000 37266

10243/11143/12143 kHz, 25-07, 0500/0520/0540 UTC
03874 00001 00000 37262

10243/11143/12143 kHz, 30-07, 0500/0520/0540 UTC
04098 00120 30322 54681 44468 83924 97683 77291 74922 70183
94250 64666 52300 55972 20307 80355 99859 56204 07579 88603
32125 46329 33835 18052 71796 84767 12896 50228 64499 95122
09446 38104 30308 44632 88303 31717 41764 77100 99102 99537
01431 14297 06823 62207 37783 25777 41111 77772 53831 84883
28673 70644 90857 01918 50153 13135 76179 08314 47101 21172
80645 46711 51136 67244 03358 95749 66893 28912 02838 56582
61875 79332 34221 05219 71035 61399 35162 40638 19288 47862
40569 11210 10462 65163 82241 97225 61694 34679 61156 33086
35088 69400 09630 95896 54971 78507 13732 50337 10555 90951
93303 22411 75934 48482 95021 43675 15985 89593 12677 96948
18445 88495 74262 05523 56683 16252 99738 23036 49887 56886
09259 90164 32675

14958/13958/12158 kHz, 1100/1120/1140 UTC

14958/13958/12158 kHz, 02-07/05-07/09-07/12-07, 1100/1120/1140 UTC
00529 00093 31898 31909 40427 10395 92824 76775 73872 75842
48404 76808 28040 90148 39249 47359 30507 30788 35715 74144
66628 65932 54004 08007 81308 72310 37654 76880 10566 73506
97354 86927 72358 04950 28646 02243 14409 29838 06313 77685
94912 92593 59805 22863 94985 43024 73593 61251 63921 99318
70857 28985 05637 42657 41889 80688 86620 87293 43614 11487
03113 22797 04087 74456 12191 59318 61139 47700 62980 38368
67245 21722 30102 80220 50563 52938 14446 20571 03342 07115
72454 11701 25793 86108 47206 35721 61476 14142 18417 03451
08705 52224 91304 15114 13824 53605

14958/13958/12158 kHz, 16-07, 1100/1120/1140 UTC
05173 00001 00000 33264

14958/13958/12158 kHz, 19-07, 1100/1120/1140 UTC
06469 00001 00000 37664

14958/13958/12158 kHz, 23-07/26-07/30-07, 1100/1120/1140 UTC
00399 00161 01680 98486 32812 28584 24926 65863 11450 28108
56189 53911 08940 47892 34624 75955 17245 26847 55530 49093
03926 50465 14891 87558 86919 58261 50155 50761 81214 04735
96305 75382 72860 07560 46251 18415 13796 21753 86068 52653
09590 39501 12567 84685 64134 63832 95689 18511 51645 04366
52648 41837 49100 32357 54121 47028 91610 15953 46680 02811

50771 70597 29342 36180 78218 08227 39219 92586 06577 15795
18163 97321 69852 20417 74420 93054 00078 80780 33552 64948
37051 55985 14869 37762 87108 24306 46144 36640 60137 96109
94705 66750 46097 39923 39089 82290 33722 58800 26973 18311
23922 89238 70339 53203 35941 65608 86789 77996 07784 62757
50396 52227 65029 33653 79408 58084 72870 25406 35766 93777
60487 85253 83914 52746 44888 28228 97647 27345 90059 33799
34563 93881 71888 84822 14333 45937 58300 89525 27215 51361
81560 34686 23261 76272 95061 73872 88767 23447 80162 63434
77325 79028 10173 18859 65435 11492 75471 18736 01024 58871
75940 74210 96898 10334

13538/14438/14938 kHz, 1600/1620/1640 UTC

13538/14438/14938 kHz, 02-07, 1600/1620/1640 UTC
03501 00001 00000 34253

13538/14438/14938 kHz, 04-07, 1600/1620/1640 UTC
03650 00001 00000 34260

13538/14438/14938 kHz, 09-07, 1600/1620/1640 UTC
06570 00001 00000 33665

13538/14438/14938 kHz, 11-07, 1600/1620/1640 UTC
06464 00001 00000 35264

13538/14438/14938 kHz. 16-07/18-06, 1600/1620/1640 UTC
00579 00180 28045 83617 82512 20028 03093 75463 42053 48013
40722 21281 54279 67606 84137 45052 57274 17966 44327 90228
30146 76151 80479 37527 64521 87104 40979 70434 22743 44539
38380 78784 16485 48078 72823 15648 04090 77041 04932 75070
35447 59396 03659 65577 34376 71060 26215 17466 83521 95886
71083 89044 54821 90032 13554 67023 06278 17408 25585 21340
68195 00401 23101 23528 78335 03753 48480 06318 43240 23274
31658 79539 28432 06284 27632 02014 56280 14573 03596 62295
36860 78231 79676 74373 44252 18102 16044 19377 05836 92513
79345 58114 65939 29746 05740 80746 70542 89873 43161 41472
36128 81156 25843 49389 78606 55278 61047 66960 92444 34874
83403 23132 37090 12781 03862 09357 23825 28762 48506 90979
01305 89459 05039 41066 55488 36994 91626 88268 32463 41138
11400 45135 19808 25988 33076 54767 48973 83045 51852 48277
26997 64453 76041 31051 25814 76765 87487 88829 85427 35174
68131 60841 49774 47795 25090 34413 22547 75384 05529 74732
79148 74112 63974 99734 36245 43969 84003 49510 54867 43366
57124 04503 39385 50048 33321 83701 71066 83932 52934 00525
16509 70113 41600

13538/14438/14938 kHz, 23-07, 1600/1620/1640 UTC
04330 00001 00000 32657

13538/14438/14938 kHz, 25-07, 1600/1620/1640 UTC
05988 00001 00000 41665

13538/14438/14938 kHz, 30-07, 1600/1620/1640 UTC
00310 00209 01717 74514 11806 33511 34561 10453 98151 39246
98972 66838 91596 44092 66892 60350 69448 93905 02285 58269
69984 58622 20988 46135 47545 04852 38607 33747 36837 36028
96157 05975 00528 03241 24437 71430 19607 36001 36572 43307
40335 72817 51545 15804 98200 05785 31564 53305 24905 96917
04454 47590 29293 31036 03428 76145 94600 01079 44932 81220
31404 86163 69430 16376 89048 12590 01462 63114 54227 02343
50539 45459 17372 87879 37958 93081 61505 03295 87762 79102
88955 26705 32117 73738 47992 87927 42936 18886 31606 61899

33325 89149 32783 19226 22099 12096 43716 13805 95169 43476
22072 06148 16639 82903 99679 35933 63279 45374 34358 49016
14241 25614 42111 69969 67020 09934 49433 17230 20167 91552
58211 79869 86804 39232 01784 56237 00348 68740 20711 77736
49370 47850 08904 74387 74332 65093 12308 83423 24953 80919
63200 43991 69415 83717 57603 48090 38512 51702 75813 80493
49192 57516 18496 52887 90546 25928 11240 82686 42537 21349
21242 33918 07349 80121 37357 66117 70743 69971 65774 57660
71388 21024 06789 58451 57548 55342 14508 43330 67870 50949
36928 19796 15893 71532 57376 72019 79896 56367 88033 13198
71230 38267 37059 37629 79117 22134 94039 41486 35970 51512
99941 30672 29240 85665 45538 32208 13607 87660 38303 42970
59595 01162

17435/16235/14935 kHz, 1100/1120/1140 UTC

17435/16235/14935 kHz, 03-07, 1100/1120/1140 UTC
03260 00001 00000 32261

17435/16235/14935 kHz, 04-07, 1100/1120/1140 UTC
03773 00001 00000 36262

17435/16235/14935 kHz, 10-07/11-07, 1100/1120/1140 UTC
08983 00195 84437 46236 59177 19411 37819 66154 43771 02491
68121 75317 32269 93540 61357 29122 32671 23597 78093 86603
58937 48944 86628 62563 32394 99308 50767 72657 51496 75717
20622 50277 16516 11330 01917 44830 61586 00456 92727 42778
65535 54907 01484 77257 75284 50464 12873 19788 38129 55823
03834 61530 91997 42867 05941 27114 62881 17500 78890 45565
01809 40369 07812 01649 01372 04264 36891 53412 44351 94427
56823 93022 18666 31640 87463 24166 23577 78915 53541 22612
85819 61546 32204 99296 35112 72116 75080 54786 37531 03460
95463 94800 59121 23393 99340 76114 32867 54062 86873 81816
95614 44877 61113 87893 31835 02013 18530 70325 61904 17410
16838 35986 64691 56324 08479 26277 15703 20004 93672 28244
45886 60257 41361 84396 85744 56009 35753 12136 42547 35830
43282 11112 91537 07230 29382 20025 38745 12549 25003 90108
31500 68597 55729 33302 18798 88080 52472 00696 10768 14649
04497 89563 94957 83906 20872 16339 54866 69449 87335 57956
25757 14429 16106 81763 08701 24472 86481 58727 42004 00547
88494 74596 72901 09838 84994 02236 49017 76250 55168 58931
38474 67954 58094 14502 13963 03549 27678 74131 37973 75184
22479 70247 11987 58536 96154 74707 42133 36502

17435/16235/14935 kHz, 17-07, 1100/1120/1140 UTC
08747 00001 00000 40255

17435/16235/14935 kHz, 18-07, 1100/1120/1140 UTC
09606 00001 00000 37261

17435/16235/14935 kHz, 24-07/25-07, 1100/1120/1140 UTC
06805 00185 77786 44986 34176 42986 27631 83014 08201 11346
23659 03804 28690 29080 93415 20840 74824 93697 28807 71647
71806 18370 93439 88502 75640 25903 97400 62272 70500 99174
39475 99725 66445 51791 53307 51328 14812 70963 26974 18881
03643 20296 54522 19954 96499 65730 65527 47572 43447 93407
78584 18294 06981 03132 38476 41475 36070 86256 76288 45980
02028 41135 74585 71560 32794 17661 42553 10622 54255 49140
68803 69705 62978 99607 69775 94456 77623 28264 57456 94197
33317 21718 29885 78679 40422 07531 50715 52912 18290 42136
96046 38273 37863 71859 16374 21378 98592 26330 20875 07263
12488 89739 23068 98259 63399 35183 95156 23554 53811 04795
70838 20977 47718 48876 48389 46212 79292 21465 12274 53280

46227 67380 92407 74944 06746 61394 23087 70859 79744 37986
86778 63724 01029 95124 41536 12417 43510 15961 00932 89561
15082 77328 47353 02789 81288 09640 66543 79294 44626 31991
30437 67479 92428 66478 32014 58889 68553 86778 82113 96301
93436 54329 13854 09606 52378 89905 97646 88377 27962 27076
80519 50538 52275 88049 53045 64907 17533 79424 99149 01084
84885 98892 66849 49910 13470 96121 27118 53113

17435/16235/14935 kHz, 31-07, 1100/1120/1140 UTC
03322 00086 87305 27785 90377 96114 33661 72422 26188 93862
73537 76665 02700 81369 44442 98758 46694 30694 60073 85336
00844 40406 52933 84455 49592 84119 81984 22371 27766 95051
65094 57641 66731 62774 10429 23622 55209 57645 52280 02956
47444 15887 77755 76598 36981 26187 75221 93944 63569 74586
23811 66485 59659 59003 83722 87405 56524 36606 26637 98560
59160 02755 80017 39911 37572 40769 16995 04717 29008 94149
21500 71107 97669 55545592872 83318 40640 69611 55999 79840
69288 84041 68115 82191 25409 41955 27490 57660 54222

17474/16274/14574 kHz, 1800/1820/1840 UTC

17474/16274/14574 kHz, 03-07/05-07, 1800/1820/1840 UTC
00302 00180 37771 18837 17492 60437 08123 76396 94548 43296
77007 81905 79877 77587 97593 15120 50181 52603 53194 67586
96967 55443 15689 73662 96673 75579 86883 73613 62635 72688
25047 90889 77236 72085 05476 20636 23921 22580 21505 01993
26278 31440 96804 15441 75785 42575 91142 39702 46565 38780
31502 21264 25483 62399 64548 58515 61647 47849 44908 64864
76756 46482 47241 18273 70431 33212 16846 55067 94947 61682
36609 73492 10347 27055 19536 55921 50850 06055 88469 76005
91424 54899 62879 56256 19317 90229 50989 59942 01655 72469
18574 22757 65787 59223 52755 80098 24595 32673 77430 44367
62280 60649 33294 35676 35840 62379 30771 65579 41720 75153
88576 54854 99179 04444 13644 67566 23544 06525 68721 00407
35565 93324 18756 91794 87750 88040 67536 31423 82516 65068
93996 68494 74967 51432 15572 63176 69658 47716 24891 36383
80599 46527 59433 81365 71150 27483 29788 83120 52421 66545
73989 79424 94220 60132 72319 25477 74386 84320 16438 07234
22580 45858 08507 10677 32049 88004 86160 42793 04294 28437
79348 46688 64622 13173 67232 12839 91164 81088 40027 13851
91734 70234 04733

17474/16274/14574 kHz, 10-07/12-07, 1800/1820/1840 UTC
04631 00301 50569 63647 07141 02618 85711 56063 17074 98780
99438 22419 43877 27073 29858 87535 65800 39700 87198 52892
99029 97697 99863 79634 02352 87417 17907 98001 10918 17567
94275 80692 49020 77987 63284 44331 34257 25742 20741 38310
16236 16327 89783 44945 41792 53808 30772 89299 90433 30294
05005 75261 27750 41874 13317 58788 77903 63507 43382 16519
81063 47836 89733 41994 45443 36182 88424 78418 35889 32694
85325 65633 64479 07885 63243 00066 09736 24816 28265 53984
96815 33351 74270 10488 31313 38785 15587 34132 41046 18593
04065 01830 89033 37440 40365 11675 98953 96138 68409 52830
70551 89413 50504 40989 29934 60153 87965 47483 36413 84151
45282 48037 62742 31856 38457 07510 46216 32695 24021 25280
60755 38827 88060 76679 48952 98006 51908 19773 00089 17668
88207 83881 52289 61469 43512 24856 01133 65578 64566 42683
58317 62646 01958 74311 17463 79675 40096 60954 28641 31033
99617 30037 05386 06285 44985 87810 51575 24363 46471 22903
19976 82688 84932 90555 54747 93738 28066 43418 23161 50888
40075 79996 47482 66522 34617 13955 09796 42239 84849 91092
93019 28654 76326 55779 76988 33192 80414 66171 39099 66439
68669 30259 62474 36909 39484 95343 66805 27053 05546 88187

56002 61783 52711 53074 37868 27595 16963 09538 92271 47541
59890 88508 56470 83709 63331 55470 22509 84152 94392 85330
45997 99175 98903 58795 59858 44954 50569 79871 09924 17910
38387 09289 05811 92408 25384 20930 09505 07363 24648 22861
61621 67295 29446 07324 14633 17117 49297 25747 79795 73492
20781 71621 85649 16452 15966 43043 41304 54514 78285 45195
96384 86490 05994 52935 35985 60938 30990 99950 47069 62440
28434 18731 55317 30342 05061 02416 39233 05306 69041 69384
87306 70382 04374 24076 09074 94356 36625 39304 49021 58968
74827 93185 84117 84630 94952 74285 14965 47992 37215 64348
13797 74975 09879 65557

17474/16274/14574 kHz, 17-07/19-07, 1800/1820/1840 UTC
00288 00171 36102 24511 63630 30833 75513 49940 26459 05913
28915 61825 20845 43807 01251 53580 94101 94400 12653 55166
30548 88510 81844 17574 33166 22841 27999 84960 60998 42430
30407 04542 89515 67692 24836 72510 70118 26088 81452 51170
73529 75524 04251 28324 23620 74316 73467 62847 91236 35036
61490 54301 34669 26785 61337 96235 36937 20663 06080 64930
69324 22129 47319 29468 01136 95857 07992 79531 24385 56531
88696 35327 11209 91352 06438 19823 38542 76973 60373 67578
37530 89458 90220 80852 18888 48358 32313 16542 43841 22383
65294 57578 83283 96842 18460 61962 92520 24185 36959 65570
25067 84685 69057 55084 25065 05360 56023 21635 59120 03643
59969 55421 50061 22919 85067 08918 64724 06537 08604 88952
83304 04163 74151 86449 03889 16237 08740 98611 15735 23134
81996 19043 84201 91536 05290 11874 73476 96482 60588 26671
57632 67048 08228 76446 28096 43284 64237 18643 18829 27993
92324 99608 67162 60938 31884 51350 34377 74992 99745 47095
19954 95249 03998 15261 39817 12099 83760 42554 07627 29885
89242 50775 73116 16717

17474/16274/14574 kHz, 24-07/26-07, 1800/1820/1840 UTC
00407 00098 17691 99820 16650 47820 80946 15090 99407 24271
00501 24956 21970 98207 06999 02377 83326 21590 86374 55530
89843 27180 92007 59837 09199 75963 66247 38853 53158 66784
33128 93204 73123 02421 30540 85631 87858 20362 94391 08769
66995 57035 09580 05936 85010 48310 02510 93813 07704 92984
96659 14687 45253 82040 09430 38309 72047 54010 63281 98903
53489 07628 86127 86882 50270 11386 87737 58736 24162 92375
42381 08430 98392 44115 29180 63673 93514 10501 97516 39415
78628 82875 11357 56751 38039 50156 45392 00021 04913 20455
09277 76972 96425 35520 46042 68003 93094 55897 00979 98284
56542

17474/16274/14574 kHz, 31-07, 1800/1820/1840 UTC
00330 00112 01144 07825 73678 99275 22702 69927 77227 78745
38322 61304 09479 51166 73409 39220 23636 71894 61343 38985
96417 33938 59025 41489 05751 93535 99257 93212 77154 71733
93608 70557 65278 26583 36455 02497 85028 48161 88549 55269
66515 49382 78068 41125 84257 46230 21219 49089 04416 40188
51230 67337 57393 03598 73122 80038 39345 53868 42910 44522
36728 91051 15085 49151 98176 45586 91440 86610 91776 07955
23543 26650 37220 73937 97349 98278 81034 60112 16894 36274
27782 44751 12509 98381 57667 50981 07406 60635 84335 32663
29163 31697 92872 15199 08681 16450 09353 16411 61406 12938
18127 88365 13496 56494 07648 08753 32497 66346 02948 60648
70808 27922 49798 20739 42263

18243/19643/20743 kHz, 0630/0650/0710 UTC

18243/19643/????? kHz, 04-07, 0630/0650/0710 UTC
08192 00156 61880 60362 10892 13726 97164 85090 17095 54768
32592 56227 31161 30123 09858 15608 79724 82611 20755 93848
03914 97093 24006 70886 74866 51241 96501 97820 01002 95400
38089 48757 91292 24590 98824 47438 01694 27944 45813 30410
23005 95979 80809 55275 34829 40802 41870 88018 07512 34101
61267 86665 61506 03279 58135 39950 31344 34965 55450 15124
49749 82870 61157 71257 04942 97741 06216 05368 12544 64127
83891 77480 34345 72941 82009 37635 71716 97866 07213 31472
33624 22622 28698 06115 26848 13668 73649 29565 38437 26104
67781 50703 73657 62284 46402 43151 38378 12120 38807 98833
98539 74603 23462 24908 82991 80510 97782 53769 08525 30784
75932 18113 98322 45969 75319 17963 10998 60472 17681 50944
20981 99868 58460 76685 13712 19074 86672 57776 81335 78936
74780 34689 38766 38076 53929 11957 47224 78430 99050 83372
98301 52968 62679 20084 71204 50979 69308 31677 75210 90289
90811 16729 95659 68053 69953 76028 07842 51692 60544

18243/19643/20743 kHz, 09-07, 0630/0650/0710 UTC
03605 00001 00000 36653

18243/19643/20743 kHz, 11-07, 0630/0650/0710 UTC
07400 00001 00000 33257

18243/19643/20743 kHz, 16-07/18-07, 0630/0650/0710 UTC
16-07, 0710 UTC. Off after a few seconds
02602 00079 08697 28598 19831 99032 68470 78492 21071 52067
83148 50087 88333 71034 54513 21568 28783 31372 99954 01525
43041 25017 74059 57862 37506 00350 14147 41416 23018 56545
19139 87211 13717 50742 23337 21225 67514 89843 17013 91496
85670 66600 60592 47043 34960 67630 17690 55293 45871 84694
29720 35685 46986 62605 95427 43057 42565 37199 04556 94809
98574 54274 21073 47940 63037 20636 42099 53054 17874 65903
10499 55211 73124 38694 53573 55669 10740 78280 69798 67233
07777 17235

18243/19643/20743 kHz, 23-07, 0630/0650/0710 UTC
09256 00001 00000 35166

18243/19643/20743 kHz, 25-07, 0630/0650/0710 UTC
01917 00001 00000 41252

18243/19643/20743 kHz, 30-07, 0630/0650/0710 UTC
03886 00001 00000 40263

13445/12145/11545 kHz, 0910/0930/0950 UTC

13445/12145/11545 kHz, 04-07, 0910/0930/0950 UTC
08234 00001 00000 34263

13445/12145/11545 kHz, 06-07, 0910/0930/0950 UTC
08308 00001 00000 36660

13445/12145/11545 kHz, 11-07/13-07/18-07/20-07, 0910/0930/0950 UTC
05807 00154 54544 44590 62886 16777 30827 22989 88708 34470
49536 56602 46708 50125 92196 40384 33318 85799 34392 78972
92662 71410 47516 06339 94463 27254 88643 46537 06123 06671
39544 93208 11644 60084 43800 93781 70156 16553 78778 84797
47461 41269 70093 60047 67627 67605 19968 97284 33210 51212
38638 50614 75841 06495 36275 92359 44582 39866 42399 25910
19601 39777 87764 89935 93305 76925 73719 45388 21927 12068

68418 44632 63021 47935 57386 80003 07771 74783 77204 55113
88557 14799 41723 39498 54373 01218 71627 55694 14973 11962
72443 37097 68613 50126 74665 85830 70957 49747 49462 90447
45156 69141 42347 32233 62952 54523 13035 59514 37211 82541
55318 84485 30956 98761 47851 12108 60390 89127 39103 46758
50378 28587 15861 24359 34531 72583 47566 85686 05825 40933
45077 39791 86531 24404 26748 27798 45628 96474 89981 23955
41292 88818 90419 24274 16304 63783 69673 29095 66817 95742
89539 41077 80121 53927 59156 92262 21165

13445/12145/11545 kHz, 25-07, 0910/0930/0950 UTC
07024 00001 00000 33261

13445/12145/11545 kHz, 27-07, 0910/0930/0950 UTC
06936 00001 00000 40661

XPB1

11168 kHz, 01-07/02-07/08-07/09-07/15-07/22-7/23-07/29-07/30-07, 0500 UTC
11468 kHz, 01-07/02-07/08-07/09-07/15-07/22-7/23-07/29-07/30-07, 0510 UTC
12168 kHz, 01-07/02-07/08-07/09-07/15-07/22-7/23-07/29-07/30-07, 0520 UTC
13368 kHz, 01-07/02-07/08-07/09-07/15-07/22-7/23-07/29-07/30-07, 0530 UTC
13969 kHz, 01-07/02-07/08-07/09-07/15-07/22-7/23-07/29-07/30-07, 0540 UTC
14569 kHz, 01-07/02-07/08-07/09-07/15-07/22-7/23-07/29-07/30-07, 0550 UTC

20024 kHz, 02-07/05-07/09-07/12-07/16-07/19-07/23-07/26-07/30-07, 1300 UTC
19224 kHz, 02-07/05-07/09-07/12-07/16-07/19-07/23-07/26-07/30-07, 1310 UTC
18324 kHz, 02-07/05-07/09-07/12-07/16-07/19-07/23-07/26-07/30-07, 1320 UTC
17424 kHz, 02-07/05-07/09-07/12-07/16-07/19-07/23-07/26-07/30-07, 1330 UTC
16324 kHz, 02-07/05-07/09-07/12-07/16-07/19-07/23-07/26-07/30-07, 1340 UTC
15824 kHz, 02-07/05-07/09-07/12-07/16-07/19-07/23-07/26-07/30-07, 1350 UTC

13884 kHz, 03-07/06-07/10-07/13-07/17-07/20-07/24-07/27-07/31-07, 1100 UTC
13384 kHz, 03-07/06-07/10-07/13-07/17-07/20-07/24-07/27-07/31-07, 1110 UTC
12184 kHz, 03-07/06-07/10-07/13-07/17-07/20-07/24-07/27-07/31-07, 1120 UTC
11584 kHz, 03-07/06-07/10-07/13-07/17-07/20-07/24-07/27-07/31-07, 1130 UTC
11084 kHz, 03-07/06-07/10-07/13-07/17-07/20-07/24-07/27-07/31-07, 1140 UTC
10584 kHz, 03-07/06-07/10-07/13-07/17-07/20-07/24-07/27-07/31-07, 1150 UTC

DIPLOMATIC STATIONS

Diplomatic stations: Bulgary

18515 kHz, 26-07, 1028 UTC, RFSM Bulgarian diplo

Diplomatic stations: North Korea

21009 kHz, 04-07, 0713 UTC
16252 kHz, 08-07, 1310 UTC
16500 kHz, 12-07, 0636 UTC
16252 kHz, 12-07, 0636 UTC
14300 kHz, 12-07, 0740 UTC

Diplomatic stations: Russia

11638 kHz, 01-07, 0705 UTC, MFSK-6	MFA Moscow clg 165324: Russian embassy Vienna
11562 kHz, 01-07, 0744 UTC, MFSK-6	MFA Moscow clg 432516: Russian embassy Bern
12148 kHz, 01-07, 0759 UTC, MFSK-66	Russian diplo
13395 kHz, 01-07, 0804 UTC, MFSK-6	MFA Moscow clg 532614: Russian embassy Paris
20675 kHz, 01-07, 0916 UTC, MFSK-6	MFA Moscow clg 641523: Russian embassy Lusaka
14633 kHz, 03-07, 0819 UTC, MFSK-66	Russian diplo
17445 kHz, 03-07, 0820 UTC, MFSK-6	MFA Moscow clg 362154: Russian embassy Athens
14636 kHz, 03-07, 0826 UTC, MFSK-66	Russian diplo
16115 kHz, 03-07, 1129 UTC, MFSK-6	MFA Moscow clg 215346: Russian Consulate General Mumbai
14650 kHz, 03-07, 1155 UTC, MFSK-6	MFA Moscow clg 215346: Russian Consulate General Mumbai
19511 kHz, 04-07, 0702 UTC, MFSK-66	Russian diplo
19511 kHz, 04-07, 0708 UTC, MFSK-6	MFA Moscow clg 314265: Russian embassy Antananarivo
19405 kHz, 04-07, 0741 UTC, MFSK-6	MFA Moscow clg 352416: Russian embassy Dar es Salaam
16022 kHz, 04-07, 0746 UTC, Serdolik v2	Russian diplo. Selcal
17515 kHz, 04-07, 0747 UTC, Serdolik v2	Russian diplo. Selcal
16022 kHz, 04-07, 0751 UTC, Serdolik v2	Russian diplo. Selcal
17515 kHz, 04-07, 0752 UTC, Serdolik v2	Russian diplo. Selcal
17521 kHz, 04-07, 0800 UTC, Serdolik v2	Russian diplo. Selcal
16026 kHz, 04-07, 0801 UTC, Serdolik v2	Russian diplo
17512 kHz, 04-07, 0804 UTC, OFDM-112	Russian diplo
18230 kHz, 04-07, 0844 UTC, Serdolik v2	Russian diplo
18230 kHz, 04-07, 0900 UTC, Serdolik v2	Russian diplo
18230 kHz, 04-07, 0907 UTC, Serdolik v2	Russian diplo
20844 kHz, 04-07, 0916 UTC, MFSK-66	Russian diplo
20837 kHz, 04-07, 0923 UTC, MFSK-6	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City
16315 kHz, 04-07, 1317 UTC, Serdolik v2	Russian diplo. Selcal
16315 kHz, 04-07, 1324 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 04-07, 1325 UTC, Serdolik v2	Russian diplo
16315 kHz, 04-07, 1331 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 04-07, 1334 UTC, Serdolik v2	Russian diplo
20627 kHz, 04-07, 1357 UTC, MFSK-6	MFA Moscow clg 436512: Russian embassy Harare
13417 kHz, 08-07, 0759 UTC, OFDM-112	Russian diplo
17466 kHz, 08-07, 0809 UTC, Serdolik v2	Russian diplo
17475 kHz, 08-07, 0814 UTC, MFSK-6	MFA Moscow clg 156234: Russian embassy Kampala
20690 kHz, 08-07, 0823 UTC, MFSK-6	MFA Moscow clg 156234: Russian embassy Kampala
17466 kHz, 08-07, 0825 UTC, Serdolik v2	Russian diplo
19235 kHz, 08-07, 0927 UTC, MFSK-6	MFA Moscow clg 463125: Russian embassy Rabat
19273 kHz, 08-07, 0934 UTC, Serdolik v2	Russian diplo
17520 kHz, 08-07, 1001 UTC, MFSK-6	MFA Moscow clg 612534: Russian embassy Ashgabat
17470 kHz, 08-07, 1014 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
17523 kHz, 09-07, 0801 UTC, MFSK-6	MFA Moscow clg 542136: Russian embassy Beijing
13420 kHz, 09-07, 0804 UTC, Serdolik v2	Russian diplo
20815 kHz, 09-07, 1007 UTC, Serdolik v2	Russian diplo
11483 kHz, 10-07, 0723 UTC, MFSK-6	MFA Moscow clg 412356: Russian embassy Budapest
13460 kHz, 10-07, 0729 UTC, MFSK-66	Russian diplo
16062 kHz, 11-07, 0802 UTC, Serdolik v2	Russian diplo
16153 kHz, 11-07, 0806 UTC, MFSK-6	MFA Moscow clg 153624: Russian embassy Damascus
13432 kHz, 12-07, 0639 UTC, Serdolik v2	Russian diplo
13427 kHz, 12-07, 0646 UTC, MFSK-6	MFA Moscow clg 341265: unid embassy
15920 kHz, 12-07, 0447 UTC, MFSK-6	MFA Moscow clg 216435: Russian embassy Dhaka
13532 kHz, 12-07, 0639 UTC, Serdolik v2	Russian diplo. Selcal
13473 kHz, 12-07, 0833 UTC, MFSK-66	Russian diplo
13431 kHz, 12-07, 0835 UTC, MFSK-66	Russian diplo
15985 kHz, 14-07, 1040 UTC, MFSK-66	Russian diplo
10865 kHz, 14-07, 1050 UTC, MFSK-66	Russian diplo
15710 kHz, 14-07, 1115 UTC, MFSK-6	MFA Moscow clg 261453: Russian embassy Cairo
13520 kHz, 15-07, 0723 UTC, MFSK-66	Russian diplo
20675 kHz, 15-07, 0728 UTC, MFSK-6	MFA Moscow clg 641523: Russian embassy Lusaka
18750 kHz, 15-07, 0954 UTC, MFSK-6	MFA Moscow clg 641523: Russian embassy Lusaka
23355 kHz, 15-07, 1007 UTC, MFSK-6	MFA Moscow clg 641523: Russian embassy Lusaka

14405 kHz, 17-07, 0644 UTC, MFSK-6	MFA Moscow clg 256341: Russian embassy Beirut
16320 kHz, 19-07, 1342 UTC, MFSK-6	MFA Moscow clg 241563: Russian Consulate General Karachi
12147 kHz, 24-07, 0757 UTC, MFSK-66	Russian diplo
11155 kHz, 26-07, 0647 UTC, MFSK-6	MFA Moscow clg 341265: unid embassy
11159 kHz, 26-07, 0654 UTC, MFSK-66	Russian diplo
20605 kHz, 26-07, 1139 UTC, MFSK-6	MFA Moscow clg 256134: Russian embassy Abidjan

UTILITY ROUND-UP

9300 kHz, 11-07, 0507 UTC, MFSK-13	Russian net

CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-CYP	Ary Boender via remote rx Cyprus
AB-D	Ary Boender via remote rx Germany
AB-F	Ary Boender via remote rx France
AB-FIN	Ary Boender via remote rx Finland
AB-J	Ary Boender via remote rx Japan
AB-KOR	Ary Boender via remote rx South Korea
AB-KWT	Ary Boender via remote rx Kuwait
AB-PHL	Ary Boender via remote rx Philippines
AB-POL	Ary Boender via remote rx Poland
AB-ROU	Ary Boender via remote rx Romania
AB-RUS	Ary Boender via remote rx Russia
AB-S	Ary Boender via remote rx Sweden
AB-USA	Ary Boender via remote rx USA
AtB	Attu Bosch, AK, USA
EW	Eddy Waters, Australia
FD	Full Day Waterfall, University Twente SDR
Fspy	Feline Spy SWL
HFD	Hans-Friedrich Dumrese, Germany
HFD-J	Hans-Friedrich Dumrese via remote rx Japan
HFD-USA	Hans-Friedrich Dumrese via remote rx USA
KX0DW-J	Dave Wright via remote rx Japan
Lac	Lazycrypt
Moon	Moonlight (Dave AU)
Pof	Pofistal_975 via Priyom
PY	Pierre Ynard, France and via remote rx
RL	Roberto Landolpho, Brazil
RO	Rando One, Sweden
Subilo	Subilo
T101	RadiotehnikaT101 via Priyom
TM	Time Machine

LOGS SECTION

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
---	11-7	0507	9300	Thu	Russian net	MFSK-13	(RO)
BUL	26-7	1028	18515	Fri	Bulgarian diplo	RFSM	(AB)
DPRK	4-7	0713	21009	Thu	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	8-7	1310	16252	Mon	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	12-7	0636	16252	Fri	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	12-7	0636	16500	Fri	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
DPRK	12-7	0740	14300	Fri	North Korean diplo	DPRK-ARQ 600 LSB	(AB)
E06	4-7	0500	13825	Thu	679 804 53 73647 76792 39744 ... 64407 89985 59278 804 53 00000	USB	(AB/HFD)
E06	4-7	0600	15615	Thu	679 804 53 73647 76792 39744 ... 64407 89985 59278 804 53 00000	USB	(AB/HFD/Lac)
E06	5-7	0500	13825	Fri	679 804 53 73647 76792 39744 ... 64407 89985 59278 804 53 00000	USB	(AB)
E06	5-7	0600	15615	Fri	679 804 53 73647 76792 39744 ... 64407 89985 59278 804 53 00000	USB	(AB)
E06	18-7	0500	13825	Thu	679 328 50 91825 21106 30715 ... 67230 37382 95243 328 50 00000	USB	(AB/Lac)
E06	18-7	0600	15615	Thu	679 328 50 91825 21106 30715 ... 67230 37382 95243 328 50 00000	USB	(AB/Lac)
E06	19-7	0500	13825	Fri	679 328 50 91825 21106 30715 ... 67230 37382 95243 328 50 00000. Windows XP sound effect heard after the transmission	USB	(AB/Lac)
E06	19-7	0600	15615	Fri	679 328 50 91825 21106 30715 ... 67230 37382 95243 328 50 00000	USB	(AB)
E07	2-7	1500	16232	Tue	231 231 231 000	USB	(AB/HFD/Lac)
E07	2-7	1520	18332	Tue	231 231 231 000	USB	(AB/HFD)
E07	4-7	1410	13562	Thu	441 441 441 1 440 120 440 120 55106 39780 49379 ... 50708 08205 38991 000 000	USB	(AB/HFD)
E07	4-7	1430	14862	Thu	441 441 441 1 440 120 440 120 55106 39780 49379 ... 50708 08205 38991 000 000	USB	(AB/HFD)
E07	4-7	1450	16162	Thu	441 441 441 1 440 120 440 120 55106 39780 49379 ... 50708 08205 38991 000 000	USB	(AB/HFD)
E07	5-7	1500	16232	Fri	231 231 231 000	USB	(AB)
E07	5-7	1520	18332	Fri	231 231 231 000	USB	(AB)
E07	6-7	1410	13562	Sat	441 441 441 1 440 120 440 120 55106 39780 49379 ... 50708 08205 38991 000 000	USB	(AB)
E07	6-7	1430	14862	Sat	441 441 441 1 440 120 440 120 55106 39780 49379 ... 50708 08205 38991 000 000	USB	(AB)
E07	6-7	1450	16162	Sat	441 441 441 1 440 120 440 120 55106 39780 49379 ... 50708 08205 38991 000 000	USB	(AB)
E07	9-7	1500	16232	Tue	231 231 231 1 9679 152 9679 152 72156 69857 66439 ... 35447 81196 86240 000 000	USB	(AB/Lac)
E07	9-7	1520	18332	Tue	231 231 231 1 9679 152 9679 152 72156 69857 66439 ... 35447 81196 86240 000 000	USB	(AB/Lac)
E07	9-7	1540	19132	Tue	231 231 231 1 9679 152 9679 152 72156 69857 66439 ... 35447 81196 86240 000 000	USB	(AB/Lac)
E07	11-7	1410	13562	Thu	441 441 441 000	USB	(AB)
E07	11-7	1430	14862	Thu	441 441 441 000	USB	(AB)
E07	12-7	1500	16232	Fri	231 231 231 1 9679 152 9679 152 72156 69857 66439 ... 35447 81196 86240 000 000	USB	(AB)
E07	12-7	1520	18332	Fri	231 231 231 1 9679 152 9679 152 72156 69857 66439 ... 35447 81196 86240 000 000. Restart after group 106	USB	(AB)
E07	12-7	1540	19132	Fri	231 231 231 1 9679 152 9679 152 72156 69857 66439 ... 35447 81196 86240 000 000	USB	(AB)
E07	13-7	1410	13562	Sat	441 441 441 000	USB	(AB)

E07	13-7	1430	14862	Sat	441 441 441 000	USB	(AB)
E07	16-7	1500	16232	Tue	231 231 231 000	USB	(AB)
E07	16-7	1520	18332	Tue	231 231 231 000	USB	(AB)
E07	18-7	1410	13562	Thu	441 441 441 1 524 86 524 86 03358 93218 53348 ... 19418 47523 68757 000 000	USB	(AB/Lac)
E07	18-7	1430	14862	Thu	441 441 441 1 524 86 524 86 03358 93218 53348 ... 19418 47523 68757 000 000	USB	(AB/Lac)
E07	18-7	1450	16162	Thu	441 441 441 1 524 86 524 86 03358 93218 53348 ... 19418 47523 68757 000 000	USB	(AB/Lac)
E07	19-7	1500	16232	Fri	231 231 231 000	USB	(AB)
E07	19-7	1520	18332	Fri	231 231 231 000	USB	(AB)
E07	20-7	1410	13562	Sat	441 441 441 1 524 86 524 86 03358 93218 53348 ... 19418 47523 68757 000 000	USB	(AB)
E07	20-7	1430	14862	Sat	441 441 441 1 524 86 524 86 03358 93218 53348 ... 19418 47523 68757 000 000	USB	(AB)
E07	20-7	1450	16162	Sat	441 441 441 1 524 86 524 86 03358 93218 53348 ... 19418 47523 68757 000 000	USB	(AB)
E07	23-7	1500	16232	Tue	231 231 231 1 447 170 447 170 63497 90796 36410 ... 94045 77693 23269 000 000	USB	(AB/Lac)
E07	23-7	1520	18332	Tue	231 231 231 1 447 170 447 170 63497 90796 36410 ... 94045 77693 23269 000 000	USB	(AB-CYP/Lac)
E07	23-7	1540	19132	Tue	231 231 231 1 447 170 447 170 63497 90796 36410 ... 94045 77693 23269 000 000	USB	(AB-RUS/Lac)
E07	25-7	1410	13562	Thu	441 441 441 000	USB	(AB)
E07	25-7	1430	14862	Thu	441 441 441 000	USB	(AB)
E07	26-7	1500	16232	Fri	231 231 231 1 447 170 447 170 63497 90796 36410 ... 94045 77693 23269 000 000	USB	(AB)
E07	26-7	1520	18332	Fri	231 231 231 1 447 170 447 170 63497 90796 36410 ... 94045 77693 23269 000 000	USB	(AB-CYP)
E07	26-7	1540	19132	Fri	231 231 231 1 447 170 447 170 63497 90796 36410 ... 94045 77693 23269 000 000	USB	(AB-RUS)
E07	27-7	1410	13562	Sat	441 441 441 000	USB	(AB)
E07	27-7	1430	14862	Sat	441 441 441 000	USB	(AB)
E07	30-7	1500	16232	Tue	231 231 231 000	USB	(AB-S)
E07	30-7	1520	18332	Tue	231 231 231 000	USB	(AB-CYP)
E11	1-7	0315	16125	Mon	258/00 Out	USB	(TM)
E11	1-7	0450	7469	Mon	411/00 Out	USB	(AB)
E11	1-7	0600	20170	Mon	946/00 Out	USB	(Lac)
E11	1-7	0715	15915	Mon	751/00 Out	USB	(AB)
E11	1-7	0745	9610	Mon	266/00 Out	USB	(AB/Lac/Subilo)
E11	1-7	0830	16335	Mon	182/00 Out	USB	(AB/Lac)
E11	1-7	0900	11116	Mon	530/00 Out	USB	(AB/Lac)
E11	1-7	1045	10210	Mon	692/00 Out	USB	(AB)
E11	1-7	1300	5737	Mon	311/00 Out	USB	(AB)
E11	1-7	1745	14410	Mon	247/00 Out	USB	(AB/Lac)
E11	1-7	1900	7600	Mon	643/00 Out	USB	(AB)
E11	2-7	0645	8091	Tue	512/00 Out	USB	(AB/Lac)
E11	2-7	0700	8680	Tue	579/00 Out	USB	(AB/Lac)
E11	2-7	0820	17378	Tue	130/00 Out	USB	(AB/Lac)
E11	2-7	0845	19184	Tue	159/00 Out	USB	(AB/Lac)
E11	2-7	1000	12153	Tue	308/00 Out	USB	(AB)
E11	2-7	1205	8274	Tue	465/00 Out	USB	(AB)
E11	2-7	1605	5231	Tue	230/00 Out	USB	(AB-POL)
E11	2-7	1645	14575	Tue	332/00 Out	USB	(AB)

E11	3-7	0315	16125	Wed	252/00 Out	USB	(TM)
E11	3-7	0600	20170	Wed	948/00 Out	USB	(AB-KWT)
E11	3-7	0715	15915	Wed	753/00 Out	USB	(AB)
E11	3-7	0745	15720	Wed	343/00 Out	USB	(AB)
E11	3-7	0820	17378	Wed	136/00 Out	USB	(AB)
E11	3-7	0900	11116	Wed	536/00 Out	USB	(AB)
E11	3-7	0930	6923	Wed	270/00 Out	USB	(AB)
E11	3-7	1610	4783	Wed	393/00 Out	USB	(AB)
E11	3-7	1715	7863	Wed	972/00 Out	USB	(AB)
E11	4-7	0645	8091	Thu	512/00 Out	USB	(AB)
E11	4-7	0820	6252	Thu	435/00 Out	USB	(AB)
E11	4-7	0845	19184	Thu	151/00 Out	USB	(AB)
E11	4-7	0930	6923	Thu	271/00 Out	USB	(AB)
E11	4-7	1300	5737	Thu	312/00 Out	USB	(AB)
E11	4-7	1530	10356	Thu	261/00 Out	USB	(AB/Lac)
E11	4-7	1645	14575	Thu	334/00 Out	USB	(AB)
E11	4-7	1730	8088	Thu	414/00 Out	USB	(AB)
E11	4-7	1900	7600	Thu	640/00 Out	USB	(AB/Lac)
E11	4-7	2000	5409	Thu	521/00 Out	USB	(AB)
E11	5-7	0700	8680	Fri	577/00 Out	USB	(AB)
E11	5-7	0745	15720	Fri	340/00 Out	USB	(AB)
E11	5-7	0820	6252	Fri	432/00 Out	USB	(AB)
E11	5-7	0830	16335	Fri	185/00 Out	USB	(AB)
E11	5-7	1715	7863	Fri	976/00 Out	USB	(AB)
E11	5-7	1815	12229	Fri	920/00 Out	USB	(AB-S)
E11	5-7	1910	9610	Fri	610/00 Out	USB	(AB)
E11	6-7	0700	7377	Sat	496/00 Out	USB	(AB)
E11	6-7	1610	4783	Sat	390/00 Out	USB	(AB)
E11	6-7	1645	5082	Sat	369/00 Out	USB	(AB)
E11	7-7	0700	7377	Sun	490/00 Out	USB	(AB)
E11	7-7	1605	5231	Sun	235/00 Out	USB	(AB)
E11	7-7	1645	5082	Sun	368/00 Out	USB	(AB)
E11	7-7	1745	14410	Sun	248/00 Out	USB	(AB)
E11	7-7	1815	12229	Sun	925/00 Out	USB	(AB)
E11	7-7	1910	9610	Sun	612/00 Out	USB	(AB)
E11	7-7	2000	5409	Sun	522/00 Out	USB	(AB)
E11	8-7	0450	7469	Mon	410/00 Out	USB	(AB)
E11	8-7	0715	15915	Mon	755/00 Out	USB	(AB)
E11	8-7	0745	9610	Mon	262/00 Out	USB	(AB/Subilo)
E11	8-7	0830	16335	Mon	180/00 Out	USB	(AB)
E11	8-7	0845	12815	Mon	719/00 Out	USB	(AB)
E11	8-7	0900	11116	Mon	534/00 Out	USB	(AB/Subilo)

E11	8-7	1300	5737	Mon	319/00 Out	USB	(AB-POL)
E11	8-7	1745	14410	Mon	245/00 Out	USB	(AB)
E11	8-7	1900	7600	Mon	644/00 Out	USB	(AB)
E11	9-7	0645	8091	Tue	512/00 Out	USB	(AB)
E11	9-7	0715	12530	Tue	639/00 Out	USB	(AB)
E11	9-7	0745	14940	Tue	220/00 Out	USB	(AB)
E11	9-7	0820	17378	Tue	134/00 Out	USB	(AB)
E11	9-7	0845	19184	Tue	154/00 Out	USB	(AB)
E11	9-7	1000	12153	Tue	309/00 Out	USB	(AB)
E11	9-7	1205	8274	Tue	462/00 Out	USB	(AB)
E11	9-7	1430	12984	Tue	918/00 Out	USB	(AB)
E11	9-7	1605	5231	Tue	237/00 Out	USB	(AB-POL)
E11	9-7	1645	14575	Tue	331/00 Out	USB	(AB)
E11	10-7	0600	20170	Wed	941/00 Out	USB	(AB-POL)
E11	10-7	0715	15915	Wed	757/00 Out	USB	(AB)
E11	10-7	0930	6923	Wed	279/00 Out	USB	(AB)
E11	10-7	1045	10210	Wed	696/00 Out	USB	(AB/HFD)
E11	10-7	1205	8274	Wed	465/00 Out	USB	(AB-POL)
E11	10-7	1610	4783	Wed	395/00 Out	USB	(AB)
E11	10-7	1715	7863	Wed	970/00 Out	USB	(AB)
E11	11-7	0745	14940	Thu	229/00 Out	USB	(AB)
E11	11-7	0820	6252	Thu	436/00 Out	USB	(AB)
E11	11-7	0930	6923	Thu	Test tone, no transmission	USB	(AB)
E11	11-7	1300	5737	Thu	314/00 Out	USB	(AB-POL)
E11	11-7	1645	14575	Thu	332/00 Out	USB	(AB)
E11	11-7	1730	8088	Thu	413/00 Out	USB	(AB)
E11	11-7	1900	7600	Thu	649/00 Out	USB	(AB)
E11	12-7	0600	9150	Fri	354/00 Out	USB	(AB)
E11	12-7	0820	6252	Fri	432/00 off after 39 sec	USB	(AB-POL)
E11	12-7	1000	12153	Fri	306/00 Out	USB	(AB)
E11	12-7	1715	7863	Fri	974/00 Out	USB	(AB)
E11	12-7	1815	12229	Fri	922/00 Out	USB	(AB)
E11	14-7	0600	9150	Sun	358/00 Out	USB	(AB)
E11	14-7	0700	7377	Sun	498/00 Out	USB	(AB)
E11	14-7	1605	5231	Sun	233/00 Out	USB	(AB)
E11	14-7	1645	5082	Sun	364/00 Out	USB	(AB)
E11	14-7	1745	14410	Sun	248/00 Out	USB	(AB)
E11	14-7	1815	12229	Sun	924/00 Out	USB	(AB)
E11	15-7	0315	16125	Mon	259/00 Out	USB	(TM)
E11	15-7	0715	15915	Mon	759/00 Out	USB	(AB)
E11	15-7	0745	9610	Mon	260/00 Out	USB	(AB/Subilo)
E11	15-7	0830	16335	Mon	189/00 Out	USB	(AB)

E11	15-7	0845	12815	Mon	711/00 Out	USB	(AB)
E11	15-7	0900	11116	Mon	530/00 Out	USB	(AB)
E11	15-7	1300	5737	Mon	310/00 Out	USB	(AB-POL)
E11	16-7	0645	8091	Tue	512/00 Out	USB	(AB)
E11	16-7	0700	8680	Tue	577/00 Out	USB	(AB)
E11	16-7	0715	12530	Tue	631/00 Out	USB	(AB)
E11	16-7	0745	14940	Tue	228/00 Out	USB	(AB-POL)
E11	16-7	0820	17378	Tue	136/00 Out	USB	(AB)
E11	16-7	0845	19184	Tue	159/00 Out	USB	(AB)
E11	16-7	1000	12153	Tue	307/00 Out	USB	(AB)
E11	16-7	1205	8274	Tue	460/00 Out	USB	(AB)
E11	16-7	1605	5231	Tue	230/00 Out	USB	(AB-POL)
E11	16-7	1645	14575	Tue	331/00 Out	USB	(AB)
E11	17-7	0315	16125	Wed	255/00 Out	USB	(TM)
E11	17-7	0715	15915	Wed	753/00 Out	USB	(AB)
E11	17-7	0745	15720	Wed	340/00 Out	USB	(AB-POL)
E11	17-7	0820	17378	Wed	133/00 Out	USB	(AB-POL)
E11	17-7	0845	12815	Wed	719/00 Out	USB	(AB)
E11	17-7	0900	11116	Wed	538/00 Out	USB	(AB)
E11	17-7	0930	6923	Wed	276/00 Out	USB	(AB)
E11	17-7	1205	8274	Wed	466/00 Out	USB	(AB-POL)
E11	17-7	1610	4783	Wed	399/00 Out	USB	(AB)
E11	17-7	1715	7863	Wed	970/00 Out	USB	(AB)
E11	18-7	0745	14940	Thu	224/00 Out	USB	(AB)
E11	18-7	0820	6252	Thu	439/00 Out	USB	(AB)
E11	18-7	0845	19184	Thu	152/00 Out	USB	(AB)
E11	18-7	0930	6923	Thu	271/00 Out	USB	(AB)
E11	18-7	1300	5737	Thu	313/00 Out	USB	(AB-POL)
E11	18-7	1530	10356	Thu	262/00 Out	USB	(AB/Subilo)
E11	18-7	1645	14575	Thu	331/00 Out	USB	(AB)
E11	18-7	2000	5409	Thu	Unmodulated sound that lasted as long as an E11 null message	USB	(AB)
E11	19-7	0600	9150	Fri	354/00 Out	USB	(AB/Lac)
E11	19-7	0700	8680	Fri	577/00 Out	USB	(AB)
E11	19-7	0715	12530	Fri	630/00 Out	USB	(AB)
E11	19-7	0745	15720	Fri	344/00 Out	USB	(AB)
E11	19-7	0820	6252	Fri	436/00 Out	USB	(AB-POL)
E11	19-7	0830	16335	Fri	188/00 Out	USB	(AB-POL)
E11	19-7	1000	12153	Fri	309/00 Out	USB	(AB)
E11	19-7	1715	7863	Fri	976/00 Out	USB	(AB)
E11	19-7	1910	9610	Fri	611/00 Out	USB	(AB)
E11	20-7	0700	7377	Sat	490/00 Out	USB	(AB)
E11	20-7	1610	4783	Sat	394/00 Out	USB	(AB)

E11	20-7	1645	5082	Sat	360/00 Out	USB	(AB)
E11	21-7	0600	9150	Sun	352/00 Out	USB	(AB)
E11	21-7	0700	7377	Sun	491/00 Out	USB	(AB)
E11	21-7	1605	5231	Sun	235/00 Out	USB	(AB)
E11	21-7	1645	5082	Sun	364/00 Out	USB	(AB)
E11	21-7	1910	9610	Sun	611/00 Out	USB	(AB)
E11	21-7	2000	5409	Sun	525/00 Out	USB	(AB)
E11	22-7	0315	16125	Mon	251/00 Out	USB	(TM)
E11	22-7	0450	7469	Mon	413/00 Out	USB	(AB)
E11	22-7	0600	20170	Mon	945/00 Out	USB	(AB-KWT)
E11	22-7	0745	9610	Mon	267/00 Out	USB	(AB/Subilo)
E11	22-7	0830	16335	Mon	189/00 Out	USB	(AB)
E11	22-7	0845	12815	Mon	711/00 Out	USB	(AB)
E11	22-7	0900	11116	Mon	538/00 Out	USB	(AB)
E11	22-7	1045	10210	Mon	691/00 Out	USB	(AB)
E11	22-7	1300	5737	Mon	316/00 Out	USB	(AB-POL)
E11	22-7	1745	14410	Mon	244/00 Out	USB	(AB)
E11	22-7	1900	7600	Mon	641/00 Out	USB	(AB)
E11	23-7	0645	8091	Tue	515/00 Out	USB	(AB/Lac)
E11	23-7	0700	8680	Tue	576/00 Out	USB	(AB)
E11	23-7	0715	12530	Tue	639/00 Out	USB	(AB)
E11	23-7	0820	17378	Tue	No audible transmission, a strong carrier present	USB	(Lac)
E11	23-7	0845	19184	Tue	No audible transmission, a strong carrier present	USB	(Lac)
E11	23-7	1000	12153	Tue	305/00 Out	USB	(AB)
E11	23-7	1205	8274	Tue	465/00 Out	USB	(AB-POL)
E11	23-7	1430	12984	Tue	910/00 Out	USB	(AB)
E11	23-7	1645	14575	Tue	338/00 Out	USB	(AB)
E11	24-7	0315	16125	Wed	253/00 Out	USB	(TM)
E11	24-7	0600	20170	Wed	942/00 Out	USB	(AB-POL)
E11	24-7	0745	15720	Wed	349/00 Out	USB	(AB-POL)
E11	24-7	0820	17378	Wed	135/00 Out	USB	(AB-POL)
E11	24-7	0845	12815	Wed	718/00 Out	USB	(AB)
E11	24-7	0900	11116	Wed	536/00 Out	USB	(AB)
E11	24-7	0930	6923	Wed	278/00 Out	USB	(AB)
E11	24-7	1045	10210	Wed	696/00 Out	USB	(AB)
E11	24-7	1205	8274	Wed	466/00 Out	USB	(AB-POL)
E11	24-7	1610	4783	Wed	390/00 Out	USB	(AB)
E11	25-7	0645	8091	Thu	511/00 Out	USB	(AB)
E11	25-7	0820	6252	Thu	438/00 Out	USB	(AB)
E11	25-7	0930	6923	Thu	277/00 Out	USB	(AB)
E11	25-7	1300	5737	Thu	311/00 Out	USB	(AB-POL)
E11	25-7	1530	10356	Thu	266/00 Out	USB	(AB/subilo)

E11	25-7	1645	14575	Thu	332/00 Out	USB	(AB)
E11	25-7	1730	8088	Thu	411/00 Out	USB	(AB)
E11	25-7	1900	7600	Thu	647/00 Out	USB	(AB)
E11	25-7	2000	5409	Thu	521/00 Out	USB	(AB)
E11	26-7	0700	8680	Fri	579/00 Out	USB	(AB)
E11	26-7	0715	12530	Fri	634/00 Out	USB	(AB)
E11	26-7	0745	15720	Fri	342/00 Out	USB	(AB)
E11	26-7	0820	6252	Fri	431/00 Out	USB	(AB-POL)
E11	26-7	0830	16335	Fri	182/00 Out	USB	(AB-POL)
E11	26-7	1000	12153	Fri	306/00 Out	USB	(AB)
E11	26-7	1910	9610	Fri	612/00 Out	USB	(AB)
E11	27-7	0700	7377	Sat	491/00 Out	USB	(AB)
E11	27-7	1430	12984	Sat	918/00 Out	USB	(AB)
E11	27-7	1610	4783	Sat	392/00 Out	USB	(AB)
E11	27-7	1645	5082	Sat	360/00 Out	USB	(AB)
E11	28-7	0701	7377	Sun	495/00 Out (late start)	USB	(AB)
E11	28-7	1645	5082	Sun	363/00 Out	USB	(AB)
E11	28-7	1745	14410	Sun	247/00 Out	USB	(AB)
E11	28-7	1815	12229	Sun	925/00 Out	USB	(AB)
E11	28-7	1910	9610	Sun	613/00 Out	USB	(AB)
E11	28-7	2000	5409	Sun	527/00 Out	USB	(AB)
E11	29-7	0315	16125	Mon	252/00 Out	USB	(TM)
E11	29-7	0450	7469	Mon	418/00 Out	USB	(AB)
E11	29-7	0600	20170	Mon	948/00 Out	USB	(AB-KWT/Lac)
E11	29-7	0715	15915	Mon	754/00 Out	USB	(AB/Lac)
E11	29-7	0745	9610	Mon	262/00 Out	USB	(AB/Subilo)
E11	29-7	0830	16335	Mon	188/00 Out	USB	(AB/Lac)
E11	29-7	0845	12815	Mon	713/00 Out	USB	(AB)
E11	29-7	0900	11116	Mon	532/00 Out	USB	(AB/Lac)
E11	29-7	1045	10210	Mon	696/00 Out	USB	(AB)
E11	29-7	1745	14410	Mon	246/00 Out	USB	(AB)
E11	29-7	1900	7600	Mon	643/00 Out	USB	(AB/Lac)
E11	30-7	0645	8091	Tue	511/00 Out	USB	(AB)
E11	30-7	0700	8680	Tue	577/00 Out	USB	(AB)
E11	30-7	0715	12530	Tue	639/00 Out	USB	(AB-POL)
E11	30-7	0745	14940	Tue	228/00 Out	USB	(AB-POL)
E11	30-7	0845	19184	Tue	159/00 Out	USB	(AB-POL)
E11	30-7	1000	12153	Tue	307/00 Out	USB	(AB)
E11	30-7	1430	12984	Tue	918/00 Out	USB	(AB)
E11	30-7	1605	5231	Tue	236/00 Out	USB	(AB-POL)
E11	30-7	1645	14575	Tue	337/00 Out	USB	(AB-CYP)
E11	31-7	0315	16125	Wed	253/00 Out	USB	(TM)

E11	31-7	0600	20170	Wed	948/00 Out	USB	(AB-POL)
E11	31-7	0745	15720	Wed	346/00 Out	USB	(AB-POL)
E11	31-7	0845	12815	Wed	715/00 Out	USB	(AB)
E11	31-7	0900	11116	Wed	533/00 Out	USB	(AB)
E11	31-7	0930	6923	Wed	271/00 Out	USB	(AB-POL)
E11a	1-7	0845	12815	Mon	710/37 Attention 53694 16045 70847 ... 94122 66759 61067 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	2-7	0715	12530	Tue	639/38 Attention 59939 79202 92122 ... 87825 58463 23083 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	2-7	0745	14940	Tue	229/31 Attention 59134 52299 75706 ... 38484 32003 57241 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	2-7	1430	12984	Tue	912/36 Attention 28234 78995 00301 ... 27490 04140 98808 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	3-7	0845	12815	Wed	710/37 Attention 53694 16045 70847 ... 94122 66759 61067 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	4-7	0745	14940	Thu	229/31 Attention 59134 52299 75706 ... 38484 32003 57241 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	5-7	0600	9150	Fri	358/40 Attention 37670 38146 00891 ... 35971 18814 77991 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	5-7	0715	12530	Fri	639/38 Attention 59939 79202 92122 ... 87825 58463 23083 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	6-7	1430	12984	Sat	912/36 Attention 28234 78995 00301 ... 27490 04140 98808 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	7-7	0600	9150	Sun	358/40 Attention 37670 38146 00891 ... 35971 18814 77991 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	8-7	0315	16125	Mon	252/33 Attention 70439 78945 24607 ... 79311 87727 68939 Attention (msg rptd) Out	USB	(TM/Subilo)
E11a	9-7	0700	8680	Tue	576/32 Attention 75587 35955 49385 ... 42330 23685 53837 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	10-7	0315	16125	Wed	252/33 Attention 70439 78945 24607 ... 79311 87727 68939 Attention (msg rptd) Out	USB	(TM/Subilo)
E11a	10-7	0745	15720	Wed	340/31 Attention 30644 32423 88206 ... 48089 02496 16277 Attention (msg rptd) Out	USB	(AB-KWT)
E11a	10-7	0845	12815	Wed	715/33 Attention 92156 97756 69018 ... 26107 05958 26336 Off	USB	(AB/Subilo)
E11a	10-7	0900	11116	Wed	532/30 Attention 38127 63500 54764 ... 55990 91352 88699 Off	USB	(AB/Subilo)
E11a	11-7	1530	10356	Thu	267/38 Attention 54637 24797 95257 ... 86129 24653 81403 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	12-7	0700	8680	Fri	576/32 Attention 75587 35955 49385 ... abrupt end after group 20	USB	(AB/Lac/Subilo)
E11a	12-7	0715	12530	Fri	633/00 Out	USB	(AB)
E11a	12-7	0745	15720	Fri	340/31 Attention 30644 32423 88206 ... abrupt end after group 30	USB	(AB/Lac/Subilo)
E11a	12-7	0830	16335	Fri	189/35 Attention 58929 54659 11425 ... 68375 20909 20945 Attention (msg rptd) Out	USB	(AB-POL)
E11a	12-7	1910	9610	Fri	617/36 Attention 52101 81218 02189 ... 88095 25029 73174 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	14-7	1910	9610	Sun	617/36 Attention 52101 81218 02189 ... 88095 25029 73174 Attention (msg rptd) Out	USB	(Subilo)
E11a	14-7	2000	5409	Sun	524/40 Attention 53310 34935 58369 ... 98238 88979 02594 Attention (msg rptd) Out	USB	(AB)
E11a	15-7	0450	7469	Mon	416/35 Attention 35479 09794 24879 ... 89928 41033 07485 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	15-7	0600	20170	Mon	940/37 Attention 96358 13053 54700 ... 26979 50909 86423 Attention (msg rptd) Out	USB	(AB-POL/Subilo)
E11a	15-7	1045	10210	Mon	697/31 Attention 18291 27359 71937 ... 49361 06879 11068 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	15-7	1745	14410	Mon	249/35 Attention 37507 94455 14891 ... 36662 75967 42499 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	15-7	1900	7600	Mon	648/38 Attention 35397 33744 17826 ... 00162 22029 60915 Attention (msg rptd) Out	USB	(AB)
E11a	16-7	1430	12984	Tue	918/38 Attention 80381 84702 59296 ... 78548 63227 62310 Attention (msg rptd) Out	USB	(AB/Lac/Subilo)
E11a	17-7	0600	20170	Wed	940/37 Attention 96358 13053 54700 ... 26979 50909 86423 Attention (msg rptd) Out	USB	(AB-POL/Subilo)
E11a	17-7	1045	10210	Wed	697/31 Attention 18291 27359 71937 ... 49361 06879 11068 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	18-7	1730	8088	Thu	416/35 Attention 35479 09794 24879 ... 89928 41033 07485 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	18-7	1900	7600	Thu	648/38 Attention 35397 33744 17826 ... 00162 22029 60915 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	19-7	1815	12229	Fri	925/38 Attention 18397 40767 82031 ... 89291 10861 07442 Attention (msg rptd) Out	USB	(AB/Subilo)

E11a	20-7	1430	13363	Sat	918/38 Attention 80381 84702 59296 … 78548 63227 62310 Attention (msg rptd) Out	USB	(Subilo)
E11a	21-7	1745	14410	Sun	249/35 Attention 37507 94455 14891 … 36662 75967 42499 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	21-7	1815	12229	Sun	925/38 Attention 18397 40767 82031 … 89291 10861 07442 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	22-7	0715	15915	Mon	751/36 Attention 01909 14656 85982 … 37489 34219 75119 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	23-7	0745	14940	Tue	223/40 Attention 58699 55427 19963 … 48513 80433 64091 Attention (msg rptd) Out	USB	(AB-POL/Lac/Subilo)
E11a	23-7	0845	19184	Tue	Unmodulated carrier only	USB	(AB-POL)
E11a	23-7	0845	17378	Tue	Unmodulated carrier only	USB	(PY)
E11a	23-7	0845	19184	Tue	159/25 Attention 36755 37374 02907 … 09330 86156 39893 Attention (msg rptd) Out	USB	(Subilo)
E11a	23-7	1605	5231	Tue	232/31 Attention 22613 91811 06207 … 71954 39966 34343 Attention (msg rptd) Out	USB	(AB-POL)
E11a	23-7	1605	5231	Tue	232/31 Attention 22613 91811 06207 … 71954 39966 34343 Attention (msg rptd) Out	USB	(Lac/Subilo)
E11a	24-7	0715	15915	Wed	751/36 Attention 01909 14656 85982 … 37489 34219 75119 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	24-7	1715	7863	Wed	975/33 Attention 63765 17148 05292 … 79624 88453 13540 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	25-7	0745	14940	Thu	223/40 Attention 58699 55427 19963 … 48513 80433 64091 Attention (msg rptd) Out	USB	(AB/Subilo/Lac)
E11a	25-7	0845	19184	Thu	159/25 Attention 36755 37374 02907 … 09330 86156 39893 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	26-7	0600	9150	Fri	359/34 Attention 41543 87913 25151 … 56742 14019 46782 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	26-7	1715	7863	Fri	975/33 Attention 63765 17148 05292 … 79624 88453 13540 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	26-7	1815	12229	Fri	924/00 Out	USB	(AB)
E11a	28-7	0600	9150	Sun	359/34 Attention 41543 87913 25151 … 56742 14019 46782 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	28-7	1605	5231	Sun	232/31 Attention 22613 91811 06207 … 71954 39966 34343 Attention (msg rptd) Out	USB	(AB/Subilo)
E11a	30-7	0845	17378	Tue	133/37 Attention 20130 99211 61462 … 50265 86577 38654 Attention (msg rptd) Out	USB	(AB-POL/Subilo)
E11a	30-7	1205	8274	Tue	464/37 Attention 82769 73045 61824 … 90901 67200 71756 Attention (msg rptd) Out	USB	(AB-POL/Subilo)
E11a	31-7	0715	15915	Wed	754/00 Out	USB	(AB)
E11a	31-7	0820	17378	Wed	133/37 Attention 20130 99211 61462 … 50265 86577 38654 Attention (msg rptd) Out	USB	(AB-POL/Subilo)
E11a	31-7	1205	6252	Wed	464/37 Attention 82769 73045 61824 … 90901 67200 71756 Attention (msg rptd) Out	USB	(Subilo)
F01	1-7	0230	13370	Mon	Message 42	FSK 200/500	(PY)
F01	1-7	0242	11538	Mon	Weak and -0.1kHz off, no decode	FSK 200/500	(PY)
F01	1-7	0250	10614	Mon	Wrong 1000Hz shift	FSK 200/1000	(PY)
F01	1-7	1015	11141	Mon	Message 90	FSK 200/500	(AB)
F01	1-7	1025	9192	Mon	Message 90	FSK 200/500	(AB)
F01	1-7	1035	7363	Mon	Message 90	FSK 200/500	(AB)
F01	2-7	0230	13370	Tue	Message 42	FSK 200/500	(PY)
F01	2-7	0245	11538	Tue	No decode	FSK 200/500	(PY)
F01	2-7	1015	11141	Tue	Messages 91 and 92	FSK 200/500	(AB/HFD)
F01	2-7	1025	9192	Tue	Messages 91 and 92	FSK 200/500	(AB/HFD)
F01	2-7	1035	7363	Tue	Messages 91 and 92	FSK 200/500	(AB/HFD)
F01	3-7	0230	13370	Wed	+++++ +++++ +++++	FSK 200/500	(PY)
F01	3-7	0240	11538	Wed	+++++ +++++ +++++	FSK 200/500	(PY)
F01	3-7	0250	10614	Wed	+++++ +++++ +++++	FSK 200/500	(PY)
F01	3-7	1015	11141	Wed	65650 84524 53295 … 61896 59041 93413 00000 +++++ +++++	FSK 200/500	(AB)

F01	3-7	1025	9192	Wed	65650 84524 53295 ... 61896 59041 93413 00000 +++++ +++++	FSK 200/500	(AB)
F01	3-7	1035	7363	Wed	65650 84524 53295 ... 61896 59041 93413 00000 +++++ +++++	FSK 200/500	(AB)
F01	3-7	1840	14829	Wed	00000 +++++ +++++	FSK 200/500	(AB/HFD)
F01	3-7	1850	12214	Wed	00000 +++++ +++++	FSK 200/500	(AB/HFD)
F01	3-7	1900	12214	Wed	00000 +++++ +++++	FSK 200/500	(AB/HFD)
F01	4-7	0230	13370	Thu	Message 69	FSK 200/500	(PY)
F01	4-7	0240	11538	Thu	Message 69	FSK 200/500	(PY)
F01	4-7	0250	10614	Thu	Message 69	FSK 200/500	(PY)
F01	4-7	1015	11141	Thu	Messages 94 and 95	FSK 200/500	(AB)
F01	4-7	1025	9192	Thu	Messages 94 and 95	FSK 200/500	(AB)
F01	4-7	1035	7363	Thu	Messages 94 and 95	FSK 200/500	(AB)
F01	5-7	0230	13370	Fri	Idle -250Hz carrier	FSK 200/500	(PY)
F01	5-7	0240	11538	Fri	Idle -250Hz carrier	FSK 200/500	(PY)
F01	5-7	0250	10614	Fri	No transmssion	FSK 200/500	(PY)
F01	5-7	1015	11141	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	5-7	1025	9192	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	5-7	1035	7363	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	8-7	0230	13370	Mon	Messages 70 and 71. Wrong 1000Hz shift	FSK 200/1000	(PY)
F01	8-7	0240	11538	Mon	Messages 70 and 71. Wrong 1000Hz shift	FSK 200/1000	(PY)
F01	8-7	0250	10614	Mon	Messages 70 and 71. Wrong 1000Hz shift	FSK 200/1000	(PY)
F01	9-7	0230	13370	Tue	Messages 70 and 71	FSK 200/500	(PY)
F01	9-7	0240	11538	Tue	Messages 70 and 71	FSK 200/500	(PY)
F01	9-7	0250	10614	Tue	Messages 70 and 71	FSK 200/500	(PY)
F01	10-7	0230	13370	Wed	Messages 72 and 73	FSK 200/500	(PY)
F01	10-7	0241	11538	Wed	Messages 72 and 73	FSK 200/500	(PY)
F01	10-7	0250	10614	Wed	Messages 72 and 73	FSK 200/500	(PY)
F01	11-7	0230	13370	Thu	Messages 72 and 73. Wrong 1000Hz shift	FSK 200/1000	(PY)
F01	11-7	0240	11538	Thu	Messages 72 and 73. Wrong 1000Hz shift	FSK 200/1000	(PY)
F01	11-7	0250	10614	Thu	Messages 72 and 73. Wrong 200Hz shift	FSK 200/200	(PY)
F01	12-7	0231	13370	Fri	00000 +++++ +++++ (late start)	FSK 200/500	(PY)
F01	15-7	0230	13370	Mon	Message 74	FSK 200/500	(PY)
F01	15-7	0240	11538	Mon	Message 74	FSK 200/500	(PY)
F01	15-7	0250	10614	Mon	Message 74	FSK 200/500	(PY)
F01	15-7	1035	7363	Mon	Message	FSK 200/500	(PY)
F01	16-7	0231	13370	Tue	Message 74	FSK 200/500	(PY)
F01	16-7	0240	13370	Tue	Message 74	FSK 200/500	(PY)
F01	16-7	0251	11538	Tue	Message 74	FSK 200/500	(PY)
F01	16-7	1015	11141	Tue	Messages 97 and 98	FSK 200/500	(AB)
F01	16-7	1025	9192	Tue	Messages 97 and 98	FSK 200/500	(AB)
F01	16-7	1035	7363	Tue	Messages 97 and 98	FSK 200/500	(AB)
F01	17-7	0230	13370	Wed	Message 75	FSK 200/500	(PY)
F01	17-7	0240	11538	Wed	Message 75	FSK 200/500	(PY)

F01	17-7	0250	10614	Wed	Message 75	FSK 200/500	(PY)
F01	17-7	1015	11141	Wed	Message 99	FSK 200/500	(AB)
F01	17-7	1025	9192	Wed	Message 99	FSK 200/500	(AB)
F01	17-7	1035	7363	Wed	Message 99	FSK 200/500	(AB)
F01	18-7	0230	13370	Thu	Message 75	FSK 200/500	(PY)
F01	18-7	0240	11538	Thu	Message 75	FSK 200/500	(PY)
F01	18-7	0250	10614	Thu	Message 75	FSK 200/500	(PY)
F01	18-7	1015	11141	Thu	Two messages. Too weak to copy	FSK 200/500	(AB)
F01	18-7	1025	9192	Thu	Two messages. Too weak to copy	FSK 200/500	(AB)
F01	18-7	1035	7363	Thu	Two messages. Too weak to copy	FSK 200/500	(AB)
F01	19-7	0230	13370	Fri	00000 +++++ +++++	FSK 200/500	(PY)
F01	19-7	1015	11141	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	19-7	1025	9192	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	19-7	1035	7363	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	22-7	0230	13370	Mon	Messages 76 and 77	FSK 200/500	(PY)
F01	22-7	0240	11538	Mon	Messages 76 and 77	FSK 200/500	(PY)
F01	22-7	0250	10614	Mon	Messages 76 and 77	FSK 200/500	(PY)
F01	22-7	1015	11141	Mon	Message 03	FSK 200/500	(AB)
F01	22-7	1025	9192	Mon	Message 03	FSK 200/500	(AB)
F01	22-7	1035	7363	Mon	Message 03	FSK 200/500	(AB)
F01	23-7	1015	11141	Tue	Messages 04 and 05	FSK 200/500	(AB)
F01	23-7	1025	9192	Tue	Messages 04 and 05	FSK 200/500	(AB)
F01	23-7	1035	7363	Tue	Messages 04 and 05	FSK 200/500	(AB)
F01	24-7	0250	10614	Wed	Messages 78 and 79	FSK 200/500	(PY)
F01	24-7	1015	11141	Wed	Message (too weak to decode)	FSK 200/500	(AB)
F01	24-7	1025	9192	Wed	Message (too weak to decode)	FSK 200/500	(AB)
F01	24-7	1035	7363	Wed	Message (too weak to decode)	FSK 200/500	(AB)
F01	25-7	0230	13370	Thu	Messages 78 and 79	FSK 200/500	(PY)
F01	25-7	0240	11538	Thu	Messages 78 and 79	FSK 200/500	(PY)
F01	25-7	0250	10614	Thu	Messages 78 and 79	FSK 200/500	(PY)
F01	25-7	1015	11141	Thu	Messages 07 and 08	FSK 200/500	(AB-POL)
F01	25-7	1025	9192	Thu	Messages 07 and 08	FSK 200/500	(AB-S)
F01	25-7	1035	7363	Thu	Messages 07 and 08	FSK 200/500	(AB-S)
F01	26-7	1015	11141	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	26-7	1025	9192	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	26-7	1035	7363	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	29-7	0230	13370	Mon	+++++ +++++ +++++	FSK 200/500	(PY)
F01	29-7	0240	11538	Mon	+++++ +++++ +++++	FSK 200/500	(PY)
F01	29-7	0250	10614	Mon	+++++ +++++ +++++	FSK 200/500	(PY)
F01	29-7	1015	11141	Mon	Message 09	FSK 200/500	(AB)
F01	29-7	1025	9192	Mon	Message 09	FSK 200/500	(AB)
F01	29-7	1035	7363	Mon	Message 09	FSK 200/500	(AB)

F01	30-7	0230	13370	Tue	Active	FSK 200/500	(PY)
F01	30-7	1015	11141	Tue	Messages 10 and 11	FSK 200/500	(AB)
F01	30-7	1025	9192	Tue	Messages 10 and 11	FSK 200/500	(AB)
F01	30-7	1035	7363	Tue	Messages 10 and 11	FSK 200/500	(AB)
F01	31-7	0230	13370	Wed	Message 81	FSK 200/500	(PY)
F01	31-7	0240	11538	Wed	Message 81	FSK 200/500	(PY)
F01	31-7	0250	10614	Wed	Message 81	FSK 200/500	(PY)
F01	31-7	1015	11141	Wed	Message 12	FSK 200/500	(AB)
F01	31-7	1025	9192	Wed	Message 12	FSK 200/500	(AB)
F01	31-7	1035	7363	Wed	Message 12	FSK 200/500	(AB)
F02	1-7	1014	6992	Mon	Russian domestic net	MFSK-4/150Bd/4000Hz	(Pof)
F02	3-7	0702	16083	Wed	Russian domestic net	MFSK-4/150Bd/4000Hz	(Pof)
F02	3-7	0824	5478	Wed	Russian domestic net	MFSK-4/150Bd/4000Hz	(Pof)
F02	17-7	1627	5123	Wed	Russian domestic net	MFSK-4/150Bd/4000Hz	(T101)
F03j	1-7	0735	17535	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-7	0740	17535	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-7	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	1-7	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	1-7	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-7	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-7	0430	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-7	0435	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-7	0725	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-7	0730	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-7	0800	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-7	0805	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-7	0835	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-7	0840	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-7	0430	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-7	0435	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-7	0530	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-7	0535	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-7	0800	18030	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-7	0805	18030	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-7	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-7	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0430	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0430	16125	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0435	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0435	16125	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0615	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0620	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	4-7	0720	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0725	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0735	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0740	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0835	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0840	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0915	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-7	0920	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-7	0800	5371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-7	0810	5371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-7	0810	18030	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-7	0815	18030	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-7	0930	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-7	0935	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-7	0945	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-7	0950	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-7	0530	16132	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-7	0535	16132	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-7	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-7	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-7	0810	18030	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-7	0815	18030	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-7	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	8-7	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	8-7	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-7	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0430	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0435	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0615	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0620	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0800	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0805	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0835	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0840	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-7	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-7	0430	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-7	0435	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-7	0530	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-7	0535	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-7	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-7	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	10-7	1010	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-7	1015	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0430	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0430	16125	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0435	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0435	16125	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0615	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0620	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0720	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0725	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0735	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0740	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0835	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0840	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0915	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-7	0920	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-7	0800	5371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-7	0810	5371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-7	0930	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-7	0935	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-7	0945	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-7	0950	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-7	0530	16132	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-7	0535	16132	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-7	0615	15915	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-7	0620	15915	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-7	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-7	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-7	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	15-7	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	15-7	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-7	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0430	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0435	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0615	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0620	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0725	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0730	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0835	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0840	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-7	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	17-7	0430	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	0435	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	0530	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	0535	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	0800	18030	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	0805	18030	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	1010	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-7	1015	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0430	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0430	16125	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0435	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0435	16125	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0615	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0615	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0620	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0620	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0720	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0725	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0725	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0730	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0735	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0740	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0835	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0840	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0915	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-7	0920	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-7	0800	5371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-7	0810	5371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-7	0930	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-7	0935	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-7	0945	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-7	0950	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-7	0530	16132	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-7	0535	16132	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-7	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-7	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-7	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	22-7	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	22-7	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-7	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	23-7	0430	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0435	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0615	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0615	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0620	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0620	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0725	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0730	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0835	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Subilo)
F03j	23-7	0840	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(Subilo)
F03j	23-7	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-7	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	0430	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	0435	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	0530	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	0535	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	0800	18030	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	0805	18030	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	1010	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-7	1015	12984	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0430	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0430	16125	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0435	9079	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0435	16125	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0720	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0725	11420	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0725	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0730	17410	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0735	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0740	10210	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0800	5371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0810	5371	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0835	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0840	19099	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0915	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-7	0920	6304	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-7	0800	5371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	26-7	0810	5371	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	26-7	0930	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-7	0935	6923	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	26-7	0945	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-7	0950	7663	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-7	0735	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-7	0740	10210	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-7	0930	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	29-7	0935	6923	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	29-7	1010	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-7	1015	12984	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0430	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0435	9079	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0615	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0620	11420	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0725	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0730	17410	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0800	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0805	18030	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0835	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	30-7	0840	19099	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	30-7	0945	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-7	0950	7663	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-7	0430	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(TM)
F03j	31-7	0435	16125	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(TM)
F03j	31-7	0530	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(TM)
F03j	31-7	0535	16132	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(TM)
F03j	31-7	0800	18030	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	31-7	0805	18030	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	31-7	0915	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	31-7	0920	6304	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03l	1-7	1830	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	1-7	1835	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	2-7	1800	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	2-7	1805	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	4-7	0635	18978	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	4-7	0640	18978	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	4-7	1800	12385	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	4-7	1805	12385	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	4-7	1830	6304	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	4-7	1835	6304	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	8-7	1830	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	8-7	1835	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	9-7	1800	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	9-7	1805	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03l	10-7	0950	10125	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	10-7	0955	10125	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	11-7	0635	18978	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	11-7	0640	18978	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	11-7	1800	12385	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	11-7	1805	12385	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	11-7	1830	6304	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	11-7	1835	6304	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	15-7	0950	10125	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	15-7	0955	10125	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	15-7	1830	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	15-7	1835	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	16-7	1800	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	16-7	1805	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	17-7	0950	10125	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	17-7	0955	10125	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	18-7	0635	18978	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	18-7	0640	18978	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	18-7	1800	12385	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	18-7	1805	12385	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	18-7	1830	6304	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	18-7	1835	6304	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	19-7	0850	11493	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	19-7	0855	11493	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	22-7	0950	10125	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	22-7	0955	10125	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	22-7	1830	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	22-7	1835	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	23-7	0635	18978	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	23-7	0640	18978	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	23-7	1800	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	23-7	1805	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	24-7	0950	10125	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	24-7	0955	10125	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	25-7	0635	18978	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	25-7	0640	18978	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	25-7	1800	12385	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	25-7	1805	12385	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	25-7	1830	6304	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	25-7	1835	6304	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	26-7	0850	11493	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	26-7	0855	11493	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03l	29-7	0950	10125	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	29-7	0955	10125	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	29-7	1830	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	29-7	1835	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	30-7	0635	18978	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	30-7	0640	18978	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	30-7	0810	11493	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	30-7	0815	11493	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	30-7	1800	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	30-7	1805	12385	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F06	1-7	0122	14428	Mon	11100 09501 00000 01071 02599 (late start)	FSK 200/1000	(PY)
F06	1-7	0400	10538	Mon	11166 70059 14725 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-7	0410	8107	Mon	11166 70059 14725 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-7	0420	6791	Mon	11166 70059 14725 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-7	0700	13396	Mon	Message	FSK 200/1000	(FD)
F06	1-7	0715	11123	Mon	Message	FSK 200/1000	(FD)
F06	1-7	0730	9089	Mon	Message	FSK 200/1000	(FD)
F06	1-7	0800	9923	Mon	11100 00000 95284 28044 01799	FSK 200/1000	(AB)
F06	1-7	0810	7369	Mon	11100 00000 95284 28044 01799	FSK 200/1000	(AB)
F06	2-7	0030	13971	Tue	11166 60070 96325 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	2-7	0040	11127	Tue	11166 60070 96325 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	2-7	0050	10211	Tue	11166 60070 96325 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-7	0100	17532	Tue	11100 09501 00000 01071 02599	FSK 200/1000	(PY)
F06	2-7	0800	9923	Tue	11100 00000 95284 28044 01799	FSK 200/1000	(AB)
F06	2-7	0810	7369	Tue	11100 00000 95284 28044 01799	FSK 200/1000	(AB)
F06	2-7	1250	12207	Tue	11166 30154 12457 02077 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	2-7	1650	20475	Tue	11166 10053 12457 02066 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-7	1700	18183	Tue	11166 10053 12457 02066 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-7	1710	16319	Tue	11166 10053 12457 02066 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-7	1300	16207	Wed	11166 10075 36985 03007 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	3-7	1300	20073	Wed	11166 60081 14785 03021 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	3-7	1310	13421	Wed	11166 10075 36985 03007 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	3-7	1310	18621	Wed	11166 60081 14785 03021 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	3-7	1320	11481	Wed	11166 10075 36985 03007 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	3-7	1320	14986	Wed	11166 60081 14785 03021 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	3-7	1410	15637	Wed	11166 30077 14785 03005 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	3-7	1420	14367	Wed	11166 30077 14785 03005 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	4-7	1330	16127	Thu	11166 80214 54027 04002 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-7	1340	12229	Thu	11166 80214 54027 04002 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-7	1350	9958	Thu	11166 80214 54027 04002 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5-7	0100	17532	Fri	Null message. Wrong 200Hz shift	FSK 200/200	(PY)
F06	5-7	0110	16351	Fri	Null message. Wrong 200Hz shift	FSK 200/200	(PY)

F06	5-7	0120	14428	Fri	11100 09501 00000 05999 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	7-7	1530	20988	Sun	11166 10053 95123 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-7	1540	18187	Sun	11166 10053 95123 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-7	1550	16169	Sun	11166 10053 95123 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8-7	0100	14428	Mon	Message, too weak to decode	FSK 200/1000	(PY)
F06	8-7	0700	13396	Mon	11100 00000 61497 05037 00049 36874 24685 95874 00000	FSK 200/1000	(PY/Pof)
F06	8-7	0715	11123	Mon	11100 00000 61497 05037 00049 36874 24685 95874 00000	FSK 200/1000	(PY/Pof)
F06	8-7	0730	9089	Mon	11100 00000 61497 05037 00049 36874 24685 95874 00000	FSK 200/1000	(PY/Pof)
F06	8-7	0900	14388	Mon	11100 00000 61497 05037 00049 36874 24685 95874 00000	FSK 200/1000	(PY/Pof)
F06	8-7	0915	12107	Mon	11100 00000 61497 05037 00049 36874 24685 95874 00000	FSK 200/1000	(PY/Pof)
F06	8-7	0930	9951	Mon	11100 00000 61497 05037 00049 36874 24685 95874 00000	FSK 200/1000	(PY/Pof)
F06	9-7	0030	13971	Tue	11166 60070 85631 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	9-7	0040	11127	Tue	11166 60070 85631 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-7	0050	10211	Tue	11166 60070 85631 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-7	0110	17532	Tue	11100 09501 00000 08072 02539 and 11100 09501 00000 08073 01119	FSK 200/1000	(PY)
F06	9-7	1230	18737	Tue	11166 30154 14785 09021 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	9-7	1240	14919	Tue	11166 30154 14785 09021 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	9-7	1250	12207	Tue	11166 30154 14785 09021 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	9-7	1650	20475	Tue	Null message	FSK 200/1000	(AB)
F06	9-7	1700	18183	Tue	Null message	FSK 200/1000	(AB)
F06	9-7	1710	16319	Tue	Null message	FSK 200/1000	(AB)
F06	10-7	0700	13396	Wed	11100 00000 52693 09003 00039 45762 02764 000000	FSK 200/1000	(AB)
F06	10-7	0715	11123	Wed	11100 00000 52693 09003 00039 45762 02764 000000	FSK 200/1000	(AB)
F06	10-7	0730	9089	Wed	11100 00000 52693 09003 00039 45762 02764 000000	FSK 200/1000	(AB)
F06	10-7	0900	14388	Wed	11100 00000 52693 09003 00039 45762 02764 00000	FSK 200/1000	(AB)
F06	10-7	0915	18746	Wed	11166 40023 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-7	0915	12107	Wed	11100 00000 52693 09003 00039 45762 02764 00000	FSK 200/1000	(AB-S)
F06	10-7	0915	18746	Wed	11166 40023 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	10-7	0930	14572	Wed	11166 40023 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-7	0930	9951	Wed	11100 00000 52693 09003 00039 45762 02764 00000	FSK 200/1000	(AB-S)
F06	10-7	0930	14574	Wed	11166 40023 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	10-7	0945	13383	Wed	11166 40023 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-7	0945	13383	Wed	11166 40023 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	10-7	1300	16207	Wed	11166 10075 95632 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	10-7	1300	20073	Wed	11166 60081 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	10-7	1310	13421	Wed	11166 10075 95632 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	10-7	1310	18621	Wed	11166 60081 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	10-7	1320	11481	Wed	11166 10075 95632 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	10-7	1320	14986	Wed	11166 60081 13467 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	10-7	1410	15637	Wed	11166 30077 95264 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	10-7	1420	14367	Wed	11166 30077 95264 10001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	11-7	1330	16127	Thu	11166 80214 36849 11035 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	11-7	1340	12229	Thu	11166 80214 36849 11035 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-7	1350	9958	Thu	11166 80214 36849 11035 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-7	0100	17532	Fri	11100 09501 00000 12074 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	14-7	1530	20988	Sun	11166 10053 14785 14021 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14-7	1540	18187	Sun	11166 10053 14785 14021 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14-7	1550	16169	Sun	11166 10053 14785 14021 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-7	0100	17532	Mon	11100 09501 00000 15074 03839	FSK 200/1000	(PY)
F06	15-7	0400	10538	Mon	11166 70059 14785 15028 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	15-7	0410	8107	Mon	11166 70059 14785 15028 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-7	0420	6791	Mon	11166 70059 14785 15028 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-7	0800	9923	Mon	11100 00000 69873 12045 02139	FSK 200/1000	(PY)
F06	15-7	0820	7369	Mon	11100 00000 69873 12045 02139	FSK 200/1000	(PY)
F06	16-7	0030	13971	Tue	11166 60070 54879 16075 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	16-7	0100	17532	Tue	11100 09501 00000 15074 03839	FSK 200/1000	(PY)
F06	16-7	0700	11159	Tue	11166 70202 71490 15083 01539 and 11166 70202 05813 15084 01579	FSK 200/1000	(AB)
F06	16-7	0710	9188	Tue	11166 70202 71490 15083 01539 and 11166 70202 05813 15084 01579	FSK 200/1000	(AB)
F06	16-7	0720	7669	Tue	11166 70202 71490 15083 01539 and 11166 70202 05813 15084 01579	FSK 200/1000	(AB)
F06	16-7	0800	9923	Tue	11100 00000 69873 12045 02139	FSK 200/1000	(AB)
F06	16-7	0820	7369	Tue	11100 00000 69873 12045 02139	FSK 200/1000	(AB)
F06	16-7	1200	10629	Tue	11166 70202 71490 15083 01539 and 11166 70202 05813 15084 01579	FSK 200/1000	(AB-S)
F06	16-7	1210	8138	Tue	11166 70202 71490 15083 01539 and 11166 70202 05813 15084 01579	FSK 200/1000	(AB-S)
F06	16-7	1220	6774	Tue	11166 70202 71490 15083 01539 and 11166 70202 05813 15084 01579	FSK 200/1000	(AB-S)
F06	16-7	1230	18737	Tue	11166 30154 13467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	16-7	1240	14919	Tue	11166 30154 13467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	16-7	1250	12207	Tue	11166 30154 13467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	16-7	1650	20475	Tue	11166 10053 13467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-7	1700	18183	Tue	11166 10053 13467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-7	1710	16319	Tue	11166 10053 13467 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-7	1300	16207	Wed	11166 10075 14785 17021 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-7	1300	20073	Wed	11166 60081 36985 17019 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-7	1310	13421	Wed	11166 10075 14785 17021 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-7	1310	18621	Wed	11166 60081 36985 17019 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-7	1320	11481	Wed	11166 10075 14785 17021 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-7	1320	14986	Wed	11166 60081 36985 17019 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-7	1400	19847	Wed	11166 30077 14785 17028 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-7	1410	15637	Wed	11166 30077 14785 17028 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	17-7	1420	14367	Wed	11166 30077 14785 17028 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	18-7	0700	11159	Thu	11166 70202 25849 17086 01839 and 11166 70202 61473 17087 01299	FSK 200/1000	(AB)
F06	18-7	0710	9188	Thu	11166 70202 25849 17086 01839 and 11166 70202 61473 17087 01299	FSK 200/1000	(AB)
F06	18-7	0720	7669	Thu	11166 70202 25849 17086 01839 and 11166 70202 61473 17087 01299	FSK 200/1000	(AB)
F06	18-7	1200	10629	Thu	11166 70202 25849 17086 01839 and 11166 70202 61473 17087 01299	FSK 200/1000	(AB-S)
F06	18-7	1210	8138	Thu	11166 70202 25849 17086 01839 and 11166 70202 61473 17087 01299	FSK 200/1000	(AB-S)

F06	18-7	1220	6774	Thu	11166 70202 25849 17086 01839 and 11166 70202 61473 17087 01299	FSK 200/1000	(AB-S)
F06	18-7	1330	16127	Thu	11166 80214 12859 18093 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-7	1340	12229	Thu	11166 80214 12859 18093 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-7	1350	9958	Thu	11166 80214 12859 18093 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-7	0100	17532	Fri	11100 09501 00000 19075 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	19-7	0700	11159	Fri	11166 70202 65214 18036 00049 00000 00000 00000 0000	FSK 200/1000	(AB)
F06	19-7	0710	9188	Fri	11166 70202 65214 18036 00049 00000 00000 00000 0000	FSK 200/1000	(AB)
F06	19-7	0720	7669	Fri	11166 70202 65214 18036 00049 00000 00000 00000 0000	FSK 200/1000	(AB)
F06	21-7	1530	20988	Sun	11166 10053 78912 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-7	1540	18187	Sun	11166 10053 78912 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-7	1550	16169	Sun	11166 10053 78912 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-7	0120	17532	Mon	11100 09501 00000 22075 02539 and 11100 09501 00000 22076 01119	FSK 200/1000	(PY)
F06	22-7	0800	9923	Mon	11100 00000 45617 19046 01159	FSK 200/1000	(AB-RUS)
F06	22-7	0820	7369	Mon	11100 00000 45617 19046 01159	FSK 200/1000	(AB-S)
F06	23-7	0030	13971	Tue	11166 60070 13467 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	23-7	0040	11127	Tue	11166 60070 13467 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-7	0050	10211	Tue	11166 60070 13467 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-7	0100	17532	Tue	Idle -500Hz carrier	FSK 200/1000	(PY)
F06	23-7	0110	16351	Tue	11100 09501 00000 22075 02539 and 11100 09501 00000 22076 01119	FSK 200/1000	(PY)
F06	23-7	0120	14428	Tue	11100 09501 00000 22075 02539 and 11100 09501 00000 22076 01119	FSK 200/1000	(PY)
F06	23-7	0800	9923	Tue	11100 00000 45617 19046 01159	FSK 200/1000	(AB)
F06	23-7	0820	7369	Tue	11100 00000 45617 19046 01159	FSK 200/1000	(AB)
F06	23-7	1230	18737	Tue	11166 30154 14785 23007 00049 00000 00000 00000 00000	FSK 200/1000	(AB-KWT/PY)
F06	23-7	1240	14919	Tue	11166 30154 14785 23007 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	23-7	1250	12207	Tue	11166 30154 14785 23007 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	23-7	1650	20475	Tue	11166 10053 14785 23008 00049 00000 00000 00000 00000	FSK 200/1000	(AB-KWT)
F06	23-7	1700	18183	Tue	11166 10053 14785 23008 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-7	1710	16319	Tue	11166 10053 14785 23008 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-7	0915	18746	Wed	11166 40023 45612 24001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	24-7	0930	14574	Wed	11166 40023 45612 24001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	24-7	0945	13383	Wed	11166 40023 45612 24001 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	24-7	1300	16207	Wed	11166 10075 74123 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-7	1300	20073	Wed	11166 60081 14789 24019 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-7	1310	13421	Wed	11166 10075 74123 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-7	1310	18621	Wed	11166 60081 14789 24019 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-7	1320	11481	Wed	11166 10075 74123 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-7	1320	14986	Wed	11166 60081 14789 24019 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-7	1400	19847	Wed	11166 30077 45623 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-7	1410	15637	Wed	11166 30077 45623 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-7	1420	14367	Wed	11166 30077 45623 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	25-7	1330	16127	Thu	11166 80214 78652 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-7	1340	12229	Thu	11166 80214 78652 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	25-7	1350	9958	Thu	11166 80214 78652 25036 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-7	0100	17532	Fri	11100 09501 00000 01111 00041 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	26-7	0700	11159	Fri	11166 70202 78532 26046 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	26-7	0710	9188	Fri	11166 70202 78532 26046 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	26-7	0720	7669	Fri	11166 70202 78532 26046 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	28-7	1530	20988	Sun	11166 10053 13467 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-7	1540	18187	Sun	11166 10053 13467 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-7	1550	16169	Sun	11166 10053 13467 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-7	0100	17532	Mon	1 block, 1 msg, starting at block #3 (malformed, empty transmission)	FSK 200/1000	(PY)
F06	29-7	0110	16351	Mon	1 block, 1 msg, starting at block #3 (malformed, empty transmission)	FSK 200/1000	(PY)
F06	29-7	0120	14428	Mon	1 block, 1 msg, starting at block #3 (malformed, empty transmission)	FSK 200/1000	(PY)
F06	29-7	0800	9923	Mon	11100 00000 18956 26047 01279	FSK 200/1000	(AB-RUS)
F06	29-7	0820	7369	Mon	11100 00000 18956 26047 01279	FSK 200/1000	(AB-S)
F06	30-7	0030	13971	Tue	11166 60070 12457 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	30-7	0040	11127	Tue	11166 60070 12457 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-7	0050	10211	Tue	11166 60070 12457 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-7	0100	17532	Tue	11100 09501 00000 29077 03539	FSK 200/1000	(PY)
F06	30-7	0110	16351	Tue	11100 09501 00000 29077 03539	FSK 200/1000	(PY)
F06	30-7	0700	11159	Tue	11166 70202 35947 29091 02039 and 11166 70202 54281 29092 01999	FSK 200/1000	(AB-RUS)
F06	30-7	0710	9188	Tue	11166 70202 35947 29091 02039 and 11166 70202 54281 29092 01999	FSK 200/1000	(AB-S)
F06	30-7	0720	7669	Tue	11166 70202 35947 29091 02039 and 11166 70202 54281 29092 01999	FSK 200/1000	(AB-S)
F06	30-7	0800	9923	Tue	11100 00000 18956 26047 01279	FSK 200/1000	(AB)
F06	30-7	0820	7369	Tue	11100 00000 18956 26047 01279	FSK 200/1000	(AB)
F06	30-7	1200	10629	Tue	11166 70202 35947 29091 02039 and 11166 70202 54281 29092 01999	FSK 200/1000	(AB-S)
F06	30-7	1210	8138	Tue	11166 70202 35947 29091 02039 and 11166 70202 54281 29092 01999	FSK 200/1000	(AB-S)
F06	30-7	1220	6774	Tue	11166 70202 35947 29091 02039 and 11166 70202 54281 29092 01999	FSK 200/1000	(AB-S)
F06	30-7	1230	18737	Tue	11166 30154 14785 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-KWT/PY)
F06	30-7	1240	14919	Tue	11166 30154 14785 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	30-7	1250	12207	Tue	11166 30154 14785 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	30-7	1650	20475	Tue	11166 10053 15963 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-KWT)
F06	30-7	1700	18183	Tue	11166 10053 15963 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-7	1710	16319	Tue	11166 10053 15963 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	31-7	1300	16207	Wed	11166 10075 96412 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	31-7	1300	20073	Wed	11166 60081 13467 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	31-7	1310	13421	Wed	11166 10075 96412 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	31-7	1310	18621	Wed	11166 60081 13467 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	31-7	1320	11481	Wed	11166 10075 96412 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	31-7	1320	14986	Wed	11166 60081 13467 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	31-7	1400	19847	Wed	11166 30077 13467 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	31-7	1410	15637	Wed	11166 30077 13467 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	31-7	1420	14367	Wed	11166 30077 13467 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06a	3-7	0100	17532	Wed	File V_ZFD_~1 (1536 bytes) 44400 09501 00000 03017 00009	FSK 200/1000	(PY)

F06a	3-7	0700	13396	Wed	File 44460 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	3-7	0715	11123	Wed	File 44460 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	3-7	0730	9089	Wed	File 44460 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	4-7	0100	17532	Thu	File V_ZFD_~1 (1536 bytes) 44400 09501 00000 03017 00009	FSK 200/1000	(PY)
F06a	4-7	0400	4923	Thu	File 04440 (binary contents)	FSK 200/1000	(AB)
F06a	4-7	0414	5875	Thu	File 04440 (binary contents)	FSK 200/1000	(AB)
F06a	4-7	0430	7483	Thu	File 04440 (binary contents)	FSK 200/1000	(AB)
F06a	5-7	0400	4923	Fri	File 04440 (binary contents)	FSK 200/1000	(AB)
F06a	5-7	0414	5875	Fri	File 04440 (binary contents)	FSK 200/1000	(AB)
F06a	5-7	0430	7483	Fri	File 04440 (binary contents)	FSK 200/1000	(AB)
F06a	5-7	0700	13396	Fri	File 44461 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	5-7	0715	11123	Fri	File 44461 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	5-7	0730	9089	Fri	File 44461 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	8-7	0800	10176	Mon	Files 44450 and 44451 (binary contents)	FSK 200/1000	(AB)
F06a	8-7	0815	9136	Mon	Files 44450 and 44451 (binary contents)	FSK 200/1000	(AB/PY)
F06a	8-7	1540	9976	Mon	Files 44452 and 44453 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	8-7	1555	8087	Mon	Files 44452 and 44453 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	8-7	1610	5946	Mon	Files 44452 and 44453 (binary contents)	FSK 200/1000	(PY/Pof)
F06a	9-7	0700	13396	Tue	File 44462 (binary contents)	FSK 200/1000	(AB)
F06a	9-7	0715	11123	Tue	File 44462 (binary contents)	FSK 200/1000	(AB)
F06a	9-7	0730	9089	Tue	File 44462 (binary contents)	FSK 200/1000	(AB)
F06a	9-7	0800	10176	Tue	Files 44455 and 44456 (binary contents)	FSK 200/1000	(AB)
F06a	9-7	0815	9136	Tue	Files 44455 and 44456 (binary contents)	FSK 200/1000	(AB)
F06a	9-7	0900	14388	Tue	Files 44455 and 44456 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	9-7	0915	12107	Tue	Files 44455 and 44456 (binary contents)	FSK 200/1000	(AB-S)
F06a	9-7	0930	9951	Tue	Not heard	FSK 200/1000	(AB-S)
F06a	9-7	1540	9976	Tue	Files 44457 and 44458 (binary contents)	FSK 200/1000	(AB)
F06a	9-7	1555	8087	Tue	Files 44457 and 44458 (binary contents)	FSK 200/1000	(AB)
F06a	9-7	1610	5946	Tue	Files 44457 and 44458 (binary contents)	FSK 200/1000	(AB)
F06a	10-7	0100	17532	Wed	File V_ZFD_~1 (2048 bytes) 44400 09501 00000 10018 00009	FSK 200/1000	(PY)
F06a	10-7	0800	10176	Wed	Files 44460 and 44461 (binary contents)	FSK 200/1000	(AB)
F06a	10-7	0815	9136	Wed	Files 44460 and 44461 (binary contents)	FSK 200/1000	(AB)
F06a	10-7	1540	9976	Wed	Files 44462 and 44463 (binary contents)	FSK 200/1000	(AB)
F06a	10-7	1555	8087	Wed	Files 44462 and 44463 (binary contents)	FSK 200/1000	(AB)
F06a	10-7	1610	5946	Wed	Files 44462 and 44463 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0100	17532	Thu	File V_ZFD_~1 (2048 bytes) 44400 09501 00000 10018 00009	FSK 200/1000	(PY)
F06a	11-7	0400	4923	Thu	File 04441 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0414	5875	Thu	File 04441 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0430	7483	Thu	File 04441 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0700	13396	Thu	Files 44463 and 44464 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0715	11123	Thu	Files 44463 and 44464 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0730	9089	Thu	Files 44463 and 44464 (binary contents)	FSK 200/1000	(AB)

F06a	11-7	0800	10176	Thu	Files 44466 and 44467 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0815	9136	Thu	Files 44466 and 44467 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0830	6837	Thu	Files 44466 and 44467 (binary contents)	FSK 200/1000	(AB-S)
F06a	11-7	0900	14388	Thu	Files 44463 and 44464 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	0915	12107	Thu	Files 44463 and 44464 (binary contents)	FSK 200/1000	(AB-S)
F06a	11-7	0930	9951	Thu	Files 44463 and 44464 (binary contents)	FSK 200/1000	(AB-S)
F06a	11-7	1540	9976	Thu	Files 44468 and 44469 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	1555	8087	Thu	Files 44468 and 44469 (binary contents)	FSK 200/1000	(AB)
F06a	11-7	1610	5946	Thu	Files 44468 and 44469 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0400	4923	Fri	File 04441 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0414	5875	Fri	File 04441 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0430	7483	Fri	File 04441 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0700	13396	Fri	Files 47465 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0715	11123	Fri	Files 47465 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0730	9089	Fri	Files 47465 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0800	10176	Fri	Files 44472 and 44473 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0815	9136	Fri	Files 44472 and 44473 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0830	6837	Fri	Files 44472 and 44473 (binary contents)	FSK 200/1000	(AB-S)
F06a	12-7	0900	14388	Fri	Files 47465 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	0915	12107	Fri	Files 47465 (binary contents)	FSK 200/1000	(AB-S)
F06a	12-7	0930	9951	Fri	Files 47465 (binary contents)	FSK 200/1000	(AB-S)
F06a	12-7	1540	9976	Fri	Files 44474 and 44475 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	1555	8087	Fri	Files 44474 and 44475 (binary contents)	FSK 200/1000	(AB)
F06a	12-7	1610	5946	Fri	Files 44474 and 44475 (binary contents)	FSK 200/1000	(AB)
F06a	13-7	0800	10176	Sat	Files 44479 and 44480 (binary contents)	FSK 200/1000	(AB)
F06a	13-7	0815	9136	Sat	Files 44479 and 44480 (binary contents)	FSK 200/1000	(AB)
F06a	13-7	0830	6837	Sat	Files 44479 and 44480 (binary contents)	FSK 200/1000	(AB-S)
F06a	13-7	1540	9976	Sat	Files 44481 and 44482 (binary contents)	FSK 200/1000	(AB)
F06a	13-7	1555	8087	Sat	Files 44481 and 44482 (binary contents)	FSK 200/1000	(AB)
F06a	13-7	1610	5946	Sat	Files 44481 and 44482 (binary contents)	FSK 200/1000	(AB)
F06a	14-7	0800	10176	Sun	Files 44486 (empty header, binary contents) and 44485 (Header 44400 00000 76491 11078 00009, binary contents)	FSK 200/1000	(AB)
F06a	14-7	0815	9136	Sun	Files 44486 (empty header, binary contents) and 44485 (Header 44400 00000 76491 11078 00009, binary contents)	FSK 200/1000	(AB-S)
F06a	14-7	0830	6837	Sun	Files 44486 (empty header, binary contents) and 44485 (Header 44400 00000 76491 11078 00009, binary contents)	FSK 200/1000	(AB-S)
F06a	14-7	1540	9976	Sun	Files 44486 and 44487 (binary contents)	FSK 200/1000	(AB)
F06a	14-7	1555	8087	Sun	Files 44486 and 44487 (binary contents)	FSK 200/1000	(AB)
F06a	14-7	1610	5946	Sun	Files 44486 and 44487 (binary contents)	FSK 200/1000	(AB)
F06a	15-7	0700	11159	Mon	File 44482 (binary contents)	FSK 200/1000	(AB)
F06a	15-7	0715	9188	Mon	File 44482 (binary contents)	FSK 200/1000	(AB)
F06a	15-7	0730	7669	Mon	File 44482 (binary contents)	FSK 200/1000	(AB)

F06a	15-7	1200	10629	Mon	File 44482 (binary contents)	FSK 200/1000	(AB-S)
F06a	15-7	1215	8138	Mon	File 44482 (binary contents)	FSK 200/1000	(AB-S)
F06a	15-7	1230	6774	Mon	File 44482 (binary contents)	FSK 200/1000	(AB-S)
F06a	17-7	0100	17532	Wed	File ZFD_19 (1536 bytes) empty text header	FSK 200/1000	(PY)
F06a	17-7	0700	11159	Wed	File 44485 (binary contents)	FSK 200/1000	(AB)
F06a	17-7	0715	9188	Wed	File 44485 (binary contents)	FSK 200/1000	(AB)
F06a	17-7	0730	7669	Wed	File 44485 (binary contents)	FSK 200/1000	(AB)
F06a	17-7	1200	10629	Wed	File 44485 (binary contents)	FSK 200/1000	(AB-S)
F06a	17-7	1215	8138	Wed	File 44485 (binary contents)	FSK 200/1000	(AB-S)
F06a	17-7	1230	6774	Wed	File 44485 (binary contents)	FSK 200/1000	(AB-S)
F06a	18-7	0100	17532	Thu	File ZFD_19 (1536 bytes) empty text header	FSK 200/1000	(PY)
F06a	18-7	0400	4923	Thu	File 04442 (binary contents)	FSK 200/1000	(AB)
F06a	18-7	0414	5875	Thu	File 04442 (binary contents)	FSK 200/1000	(AB)
F06a	18-7	0430	7483	Thu	File 04442 (binary contents)	FSK 200/1000	(AB)
F06a	19-7	0400	4923	Fri	File 04442 (binary contents)	FSK 200/1000	(AB)
F06a	19-7	0414	5875	Fri	File 04442 (binary contents)	FSK 200/1000	(AB)
F06a	19-7	0430	7483	Fri	File 04442 (binary contents)	FSK 200/1000	(AB)
F06a	22-7	0700	11159	Mon	File 44488 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	22-7	0715	9188	Mon	File 44488 (binary contents)	FSK 200/1000	(AB-S)
F06a	22-7	0730	7669	Mon	File 44488 (binary contents)	FSK 200/1000	(AB-S)
F06a	22-7	1200	10629	Mon	File 44488 (binary contents)	FSK 200/1000	(AB-S)
F06a	22-7	1215	8138	Mon	File 44488 (binary contents)	FSK 200/1000	(AB-S)
F06a	22-7	1230	6774	Mon	File 44488 (binary contents)	FSK 200/1000	(AB-S)
F06a	23-7	0700	13855	Tue	Files 44401 (268 bytes) and 44402 (299 bytes). Binary contents	FSK 200/1000	(PY)
F06a	23-7	0715	11627	Tue	Files 44401 (268 bytes) and 44402 (299 bytes). Binary contents	FSK 200/1000	(PY)
F06a	23-7	0730	10576	Tue	Files 44401 (268 bytes) and 44402 (299 bytes). Binary contents	FSK 200/1000	(PY)
F06a	24-7	0100	17532	Wed	File ZFD_20 (2048 bytes) empty text header, wrong checksum	FSK 200/1000	(PY)
F06a	24-7	0115	16351	Wed	File ZFD_20 (2048 bytes) empty text header, wrong checksum	FSK 200/1000	(PY)
F06a	24-7	0130	14428	Wed	File ZFD_20 (2048 bytes) empty text header, wrong checksum	FSK 200/1000	(PY)
F06a	24-7	0700	13855	Wed	Files 44401 (268 bytes) and 44402 (299 bytes). Binary contents	FSK 200/1000	(PY)
F06a	24-7	0715	11627	Wed	Files 44401 (268 bytes) and 44402 (299 bytes). Binary contents	FSK 200/1000	(PY)
F06a	24-7	0730	10576	Wed	Files 44401 (268 bytes) and 44402 (299 bytes). Binary contents	FSK 200/1000	(PY)
F06a	25-7	0100	17532	Thu	File ZFD_20 (2048 bytes) empty text header, wrong checksum	FSK 200/1000	(PY)
F06a	25-7	0115	16351	Thu	File ZFD_20 (2048 bytes) empty text header, wrong checksum	FSK 200/1000	(PY)
F06a	25-7	0130	14428	Thu	File ZFD_20 (2048 bytes) empty text header, wrong checksum	FSK 200/1000	(PY)
F06a	25-7	0400	4923	Thu	File 04443 (binary contents)	FSK 200/1000	(AB)
F06a	25-7	0414	5875	Thu	File 04443 (binary contents)	FSK 200/1000	(AB)
F06a	25-7	0430	7483	Thu	File 04443 (binary contents)	FSK 200/1000	(AB)
F06a	25-7	0700	13855	Thu	Files 44403 (385 bytes) and 44404 (455 bytes). Binary contents	FSK 200/1000	(PY)
F06a	25-7	0715	11627	Thu	Files 44403 (385 bytes) and 44404 (455 bytes). Binary contents	FSK 200/1000	(PY)
F06a	25-7	0730	10604	Thu	Files 44403 (385 bytes) and 44404 (455 bytes). Binary contents	FSK 200/1000	(PY)
F06a	26-7	0400	4923	Fri	File 04443 (binary contents)	FSK 200/1000	(AB)

F06a	26-7	0414	5875	Fri	File 04443 (binary contents)	FSK 200/1000	(AB)
F06a	26-7	0430	7483	Fri	File 04443 (binary contents)	FSK 200/1000	(AB)
F06a	26-7	1900	15611	Fri	File 04432 (binary contents)	FSK 200/1000	(PY)
F06a	26-7	1915	14379	Fri	File 04432 (binary contents)	FSK 200/1000	(PY)
F06a	26-7	1930	13389	Fri	File 04432 (binary contents)	FSK 200/1000	(PY)
F06a	27-7	0600	12194	Sat	File 04432 (binary contents)	FSK 200/1000	(AB)
F06a	27-7	0615	11415	Sat	File 04432 (binary contents)	FSK 200/1000	(AB)
F06a	27-7	0630	10311	Sat	File 04432 (binary contents)	FSK 200/1000	(AB)
F06a	29-7	0700	11159	Mon	File 44490 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	29-7	0715	9188	Mon	File 44490 (binary contents)	FSK 200/1000	(AB-S)
F06a	29-7	0730	7669	Mon	File 44490 (binary contents)	FSK 200/1000	(AB-S)
F06a	29-7	1200	10629	Mon	File 44490 (binary contents)	FSK 200/1000	(AB-S)
F06a	29-7	1215	8138	Mon	File 44490 (binary contents)	FSK 200/1000	(AB-S)
F06a	29-7	1230	6774	Mon	File 44490 (binary contents)	FSK 200/1000	(AB-S)
F06a	31-7	0100	17532	Wed	File V-ZFD21 (1905 bytes) 44400 09501 00000 31021 00003	FSK 200/1000	(PY)
F06a	31-7	0115	16351	Wed	File V-ZFD21 (1905 bytes) 44400 09501 00000 31021 00003	FSK 200/1000	(PY)
F06a	31-7	0130	14428	Wed	File V-ZFD21 (1905 bytes) 44400 09501 00000 31021 00003	FSK 200/1000	(PY)
F06a	31-7	0700	11159	Wed	File 44493 (binary contents)	FSK 200/1000	(AB-RUS)
F06a	31-7	0715	9188	Wed	File 44493 (binary contents)	FSK 200/1000	(AB-S)
F06a	31-7	0730	7669	Wed	File 44493 (binary contents)	FSK 200/1000	(AB-S)
F06a	31-7	1200	10629	Wed	File 44493 (binary contents)	FSK 200/1000	(AB-S)
F06a	31-7	1215	8138	Wed	File 44493 (binary contents)	FSK 200/1000	(AB-S)
F06a	31-7	1230	6774	Wed	File 44493 (binary contents)	FSK 200/1000	(AB-S)
F07	2-7	2000	17436	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-7	2010	16348	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-7	2020	15968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-7	2030	14852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-7	2040	13961	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-7	2050	13373	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-7	2000	17436	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	4-7	2010	16348	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	4-7	2020	15938	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	4-7	2030	14852	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-7	2040	13961	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-7	2050	13373	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	9-7	2000	17436	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	9-7	2010	16348	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	9-7	2020	15968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	9-7	2030	14852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	9-7	2040	13961	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	9-7	2050	13373	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	11-7	2000	17436	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)

F07	11-7	2010	16348	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	11-7	2020	15938	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	11-7	2030	14852	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-7	2040	13961	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-7	2050	13373	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	16-7	2000	17436	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	16-7	2010	16348	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	16-7	2020	15968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	16-7	2030	14852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	16-7	2040	13961	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	16-7	2050	13373	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	18-7	2000	17436	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-7	2010	16348	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-7	2020	15938	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-7	2030	14852	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-7	2040	13961	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-7	2050	13373	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-7	2000	17436	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-7	2010	16348	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-7	2020	15968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-7	2030	14852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-7	2040	13961	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-7	2050	13373	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-7	2000	17436	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-7	2010	16348	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-7	2020	15938	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-7	2030	14852	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-7	2040	13961	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-7	2050	13373	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-7	2000	17436	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-7	2010	16348	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-7	2020	15968	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-7	2030	14852	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-7	2040	13961	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-7	2050	13373	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
HM01	1-7	0615	10860	Mon	81135 03586 31573 76515 73752 22161 Files 50278113.F1C 31140358.TXT 07513157.TXT 07437651.TXT 65857375.TXT 80562216.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	2-7	0525	10860	Tue	81136 03587 31574 76516 73753 22161 Files 50278113.F1C 31140358.TXT 07513157.TXT 07437651.TXT 65857375.TXT 80562216.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	3-7	0520	10860	Wed	81136 03587 31574 76516 73753 22161 (repeat of 2 July)	AM/WinDRM	(AB-USA)
HM01	4-7	0555	10345	Thu	81136 03587 31574 76516 73753 22161 (repeat of 2 July)	AM/WinDRM	(AB-USA)
HM01	5-7	0500	10860	Fri	81136 03587 31574 76516 73753 22161 (repeat of 2 July)	AM/WinDRM	(AB-USA)

HM01	6-7	0515	10860	Sat	81136 03587 31574 76516 73753 22161 (repeat of 2 July)	AM/WinDRM	(AB-USA)
HM01	7-7	0545	10345	Sun	81136 03587 31574 76516 73753 22161 (repeat of 2 July)	AM/WinDRM	(AB-USA)
HM01	7-7	2236	10715	Sun	81136 03587 31574 76516 73753 22161 (repeat of 2 July)	AM/WinDRM	(RL)
HM01	8-7	0517	10860	Mon	81136 03587 31574 76516 73753 22161 (repeat of 2 July)	AM/WinDRM	(AB-USA)
HM01	8-7	2239	10715	Mon	81136 03587 31574 76516 73753 22161 (repeat of 2 July)	AM/WinDRM	(RL)
HM01	9-7	0500	10860	Tue	81137 03588 31575 76517 73754 22162 Files 50278113.F1C 31140358.TXT 07513157.TXT 07437651.TXT 65857375.TXT 80562216.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	10-7	0457	10860	Wed	53431 03589 31576 76518 73755 22163 Files 37565343.TXT 31140358.TXT 07513157.TXT 07437651.TXT 65857375.TXT 80562216.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	11-7	0728	13435	Thu	53431 03589 31576 76518 73755 22163 (repeat of 10 July)	AM/WinDRM	(AB-USA)
HM01	12-7	0504	10860	Fri	Radio Habana Cuba. HM01 at 0517z. 53432 34881 67611 62161 73757 22165 Files 37565343.TXT 31413488.TXT 05886761.TXT 36656216.TXT 65857375.TXT 80562216.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	12-7	0650	13435	Fri	53432 34881 67611 62161 73757 22165	AM/WinDRM	(AB-USA)
HM01	13-7	0500	10860	Sat	53434 34883 67612 62163 73759 22167 Files 37565343.TXT 31413488.TXT 05886761.TXT 36656216.TXT 65857375.TXT 80562216.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	14-7	0530	10860	Sun	53435 34884 67613 62164 37541 14321 Files 37565343.TXT 31413488.TXT 05886761.TXT 36656216.TXT 28533754.TXT 07511432.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	15-7	0550	10860	Mon	53437 34886 67615 62166 37542 14322 Files 37565343.TXT 31413488.TXT 05886761.TXT 36656216.TXT 28533754.TXT 07511432.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	16-7	0505	10860	Tue	34262 17651 26021 62169 37545 14325 Files 71153426.TXT 70541765.TXT 18702602.TXT 36656216.TXT 28533754.TXT 07511432.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	17-7	0500	10860	Wed	34264 17653 26022 14751 37547 14327 Files 71153426.TXT 70541765.TXT 18702602.TXT 27811475.TXT 28533754.TXT 07511432.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	18-7	0545	10860	Thu	34266 17655 26024 14753 40151 36251 Files 71153426.TXT 70541765.TXT 18702602.TXT 27811475.TXT 06084015.TXT 78273625.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	19-7	0526	10860	Fri	34267 17656 26025 14754 40152 36251 Files 71153426.TXT 70541765.TXT 18702602.TXT 27811475.TXT 06084015.TXT 78273625.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	20-7	0500	10860	Sat	Carrier till 0530z.	AM/WinDRM	(AB-USA)
HM01	20-7	0530	10860	Sat	34268 17657 26026 14755 40153 36252 Files 71153426.TXT 70541765.TXT 18702602.TXT 27811475.TXT 06084015.TXT 78273625.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	21-7	0515	10860	Sun	35311 15051 26027 14756 40154 36253 Files 78273625.TXT 18061505.TXT 18702602.TXT 27811475.TXT 06084015.TXT 78273625.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	22-7	0510	10860	Mon	35312 15052 41121 14758 40156 36255 Files 78273625.TXT 18061505.TXT 11424112.TXT 27811475.TXT 06084015.TXT 78273625.TXT Callsign QWERTY01	AM/WinDRM	(AB-USA)
HM01	23-7	0514	10860	Tue	Radio Habana Cuba cut off at 0517z. Carrier till 0519z, then HM01: 35312 15052 41121 14758 40156 36255 (repeat of 22 July)	AM/WinDRM	(AB-USA)
HM01	24-7	0510	10860	Wed	35312 15052 41121 14758 40156 36255 (repeat of 22 July)	AM/WinDRM	(AB-USA)
HM01	26-7	0525	10860	Fri	35312 15052 41121 14758 40156 36255 (repeat of 22 July)	AM/WinDRM	(AB-USA)
HM01	27-7	0550	10860	Sat	35312 15052 41121 14758 40156 36255 (repeat of 22 July)	AM/WinDRM	(AB-USA)
HM01	28-7	0520	10860	Sun	35312 15052 41121 14758 40156 36255 (repeat of 22 July). Heavily distorted audio	AM/WinDRM	(AB-USA)
HM01	29-7	0515	10860	Mon	35312 15052 41121 14758 40156 36255 (repeat of 22 July)	AM/WinDRM	(AB-USA)

HM01	30-7	0501	10860	Tue	35312 15052 41121 14758 40156 36255 (repeat of 22 July)	AM/WinDRM	(AB-USA)
HM01	31-7	0610	10860	Wed	35312 15052 41121 14758 40156 36255 (repeat of 22 July)	AM/WinDRM	(AB-USA)
M01	2-7	1800	5280	Tue	025 825 825 30 30 = = 52749 70491 71618 ...	CW	(AB-S)
M01	2-7	2000	4903	Tue	025 692 692 30 30 = =	CW	(AB)
M01	4-7	1800	5280	Thu	025 817 817 30 30 = = 28371 92835 73652 ... 92812 01921 25869 = = 817 817 30 30 000	CW	(AB-S)
M01	4-7	2000	4903	Thu	025 121 121 30 30 = = 23781 92813 72836 ... 43235 83756 10294 = = 121 121 30 30 000	CW	(AB)
M01	6-7	1500	6435	Sat	025 489 489 30 30 = = 50968 57765 24354 ... 59877 40978 16544 = = 489 489 30 30 000	CW	(AB-S)
M01	7-7	0700	6780	Sun	025 902 902 30 30 = = 72904 72817 63902 partly unreadable = = 902 902 30 30 000	CW	(AB-S)
M01	11-7	1800	5280	Thu	025 109 109 30 30 = = 72897 63519 62549 ...	CW	(AB-S)
M01	11-7	2000	4903	Thu	025 636 636 30 30 = = 62897 63519 62549 ... 64926 64829 74902 = = 636 636 30 30 000	CW	(AB)
M01	13-7	1500	6435	Sat	Sent 33 groups 025 565 565 30 30 = = 18273 92836 04937 ... 47362 83740 59821 = = 565 565 30 30 000	CW	(AB-S)
M01	14-7	0700	6780	Sun	025 (too weak to copy)	CW	(AB)
M01	14-7	0717	9736	Sun	475 134 134 50 50 = = _____ _____ _____ ... 65573 85___ 89446 = = 134 134 50 50 000	CW	(PY)
M01	16-7	1800	5280	Tue	025 728 728 30 30 = = 29382 72893 02918 ... 28371 28345 62348 = = 728 30 000	CW	(AB-FIN)
M01	16-7	2000	4905	Tue	2 kHz off freq. Sent 33 groups. 025 801 801 30 30 = = 85904 92873 67251 ... 82910 92345 17234 = = 801 801 30 30 000	CW	(AB)
M01	18-7	2000	4905	Thu	025 005 995 30 30 = = 06755 57449 03342 ... 30223 01130 57486 = = 995 995 30 30 000	CW	(AB-S)
M01	20-7	1500	6435	Sat	025 active but unreadable	CW	(AB-S)
M01	21-7	0721	9736	Sun	475 277 277 50 50 = = _____ _____ _____ ... 17520 83502 _____ 277 277 50 50 = = 000	CW	(PY)
M01	23-7	1800	5280	Tue	025 169 169 30 30 = = 44567 77345 00234 ... 61866 87995 44537 = = 169 169 30 30 000	CW	(AB-FIN)
M01	23-7	2000	4903	Tue	025 116 116 30 30 = = 18854 66375 44839 ...	CW	(AB)
M01	25-7	2000	4903	Thu	025 119 119 30 30 = = 86909 99200 65733 ... 74812 74320 84920 = = 119 119 30 30 000	CW	(AB-S)
M01	27-7	1500	6435	Sat	025 active but unreadable	CW	(AB-S)
M01	28-7	0700	6780	Sun	025 (too weak to copy)	CW	(AB-S)
M01	30-7	1800	5280	Tue	025 (too weak to copy)	CW	(AB-FIN)
M01	30-7	2000	4903	Tue	025 104 104 30 30 = = 27132 92817 62738 ... 93271 02938 74621 = = 104 104 30 30 000	CW	(AB)
M12	1-7	0210	15881	Mon	874 874 874 1 …	CW	(HFD-J)
M12	1-7	0230	14781	Mon	874 874 874 1 …	CW	(HFD-J)
M12	1-7	0250	13481	Mon	874 874 874 1 …	CW	(HFD-J)
M12	1-7	2000	12217	Mon	617 617 617 1 2088 181 2088 181 17654 71615 33486 ... 55022 21885 30734 000 000	CW	(AB/HFD)
M12	1-7	2020	10817	Mon	617 617 617 1 2088 181 2088 181 17654 71615 33486 ... 55022 21885 30734 000 000	CW	(AB/HFD)
M12	1-7	2040	9317	Mon	617 617 617 1 2088 181 2088 181 17654 71615 33486 ... 55022 21885 30734 000 000	CW	(AB/HFD)
M12	2-7	1100	11519	Tue	289 289 289 1 3873 56 3873 56 88413 54901 94933 ... 26479 35710 11543 000 000	CW	(AB)
M12	2-7	1120	12194	Tue	289 289 289 1 3873 56 3873 56 88413 54901 94933 ... 26479 35710 11543 000 000	CW	(AB)
M12	2-7	1140	13407	Tue	289 289 289 1 3873 56 3873 56 88413 54901 94933 ... 26479 35710 11543 000 000	CW	(AB)
M12	2-7	1800	12162	Tue	546 546 546 1 4272 53 47272 53 84498 02645 54406 ... 73947 45614 26443 000 000	CW	(AB)
M12	2-7	1820	11566	Tue	546 546 546 1 4272 53 47272 53 84498 02645 54406 ... 73947 45614 26443 000 000	CW	(AB)
M12	2-7	1840	10711	Tue	546 546 546 1 4272 53 47272 53 84498 02645 54406 ... 73947 45614 26443 000 000	CW	(AB)
M12	3-7	1900	14968	Wed	943 943 943 000	CW	(AB/RL/HFD)
M12	3-7	1920	14468	Wed	943 943 943 000	CW	(AB/RL/HFD)
M12	3-7	2310	16158	Wed	183 183 183 1 643 215 643 215 59084 27885 48596 ... 42013 54220 90746 000 000	CW	(PY/HFD)

M12	3-7	2330	14858	Wed	183 183 183 1 643 215 643 215 59084 27885 48596 ... 42013 54220 90746 000 000	CW	(PY/HFD)
M12	3-7	2350	14358	Wed	183 183 183 1 643 215 643 215 59084 27885 48596 ... 42013 54220 90746 000 000	CW	(PY/HFD)
M12	4-7	0300	16272	Thu	299 299 299 1 …	CW	(HFD-J)
M12	4-7	0320	14972	Thu	299 299 299 1 …	CW	(HFD-J)
M12	4-7	0340	13972	Thu	299 299 299 1 …	CW	(HFD-J)
M12	4-7	1800	11434	Thu	938 938 938 1 9531 84 9531 84 65128 23484 49398 ... 42657 22559 33916 000 000	CW	(PY)
M12	4-7	1820	10597	Thu	938 938 938 1 9531 84 9531 84 65128 23484 49398 ... 42657 22559 33916 000 000	CW	(PY)
M12	4-7	1840	9326	Thu	938 938 938 1 9531 84 9531 84 65128 23484 49398 ... 42657 22559 33916 000 000	CW	(PY)
M12	4-7	2000	12217	Thu	617 617 617 1 2088 181 2088 181 17654 71615 33486 ... 55022 21885 30734 000 000	CW	(AB/RL)
M12	4-7	2020	10817	Thu	617 617 617 1 2088 181 2088 181 17654 71615 33486 ... 55022 21885 30734 000 000	CW	(AB/RL)
M12	4-7	2040	9317	Thu	617 617 617 1 2088 181 2088 181 17654 71615 33486 ... 55022 21885 30734 000 000	CW	(AB)
M12	5-7	1900	14968	Fri	943 943 943 000	CW	(AB/RL)
M12	5-7	1920	14468	Fri	943 943 943 000	CW	(AB/RL)
M12	5-7	2100	10767	Fri	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB/RL/HFD)
M12	5-7	2120	10167	Fri	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB/RL/HFD)
M12	5-7	2140	9267	Fri	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB/RL/HFD)
M12	6-7	2100	10767	Sat	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB)
M12	6-7	2120	10167	Sat	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB)
M12	6-7	2140	9267	Sat	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB)
M12	7-7	2310	16158	Sun	183 183 183 1 643 215 643 215 59084 27885 48596 ... 42013 54220 90746 000 000	CW	(RL)
M12	7-7	2330	14858	Sun	183 183 183 1 643 215 643 215 59084 27885 48596 ... 42013 54220 90746 000 000	CW	(RL)
M12	7-7	2350	14358	Sun	183 183 183 1 643 215 643 215 59084 27885 48596 ... 42013 54220 90746 000 000	CW	(RL)
M12	8-7	2000	12217	Mon	617 617 617 000	CW	(AB-S/RL)
M12	8-7	2020	10817	Mon	617 617 617 000	CW	(AB/RL)
M12	9-7	1100	11519	Tue	289 289 289 1 3398 52 3398 52 77118 23512 99415 ... 64321 91069 18600 000 000	CW	(AB)
M12	9-7	1120	12194	Tue	289 289 289 1 3398 52 3398 52 77118 23512 99415 ... 64321 91069 18600 000 000	CW	(AB)
M12	9-7	1140	13407	Tue	289 289 289 1 3398 52 3398 52 77118 23512 99415 ... 64321 91069 18600 000 000	CW	(AB)
M12	9-7	1800	12162	Tue	546 546 546 1 3302 58 3302 58 ...	CW	(AB)
M12	9-7	1820	11566	Tue	546 546 546 1 3302 58 3302 58 ...	CW	(AB)
M12	9-7	1840	10711	Tue	546 546 546 1 3302 58 3302 58 ...	CW	(AB)
M12	10-7	1900	14968	Wed	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB)
M12	10-7	1920	14468	Wed	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB)
M12	10-7	1940	13368	Wed	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB)
M12	10-7	2310	16158	Wed	183 183 183 1 149 93 149 93 56981 81429 31645 ... 12636 28075 05011 000 000 (3rd group differs from the other two transmissions)	CW	(RL)
M12	10-7	2330	14858	Wed	183 183 183 1 149 93 149 93 56981 81429 31635 ... 12636 28075 05011 000 000	CW	(RL)
M12	10-7	2350	14358	Wed	183 183 183 1 149 93 149 93 56981 81429 31635 ... 12636 28075 05011 000 000	CW	(RL)
M12	11-7	1800	11435	Thu	938 938 938 1 4938 54 4938 54 58839 95320 02608 ... 07176 35722 70372 000 000	CW	(AB)
M12	11-7	1820	10598	Thu	938 938 938 1 4938 54 4938 54 58839 95320 02608 ... 07176 35722 70372 000 000	CW	(AB)
M12	11-7	1840	9327	Thu	938 938 938 1 4938 54 4938 54 58839 95320 02608 ... 07176 35722 70372 000 000	CW	(AB)
M12	11-7	2000	12217	Thu	617 617 617 000	CW	(AB)
M12	11-7	2020	10817	Thu	617 617 617 000	CW	(AB)

M12	12-7	1900	14968	Fri	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB)
M12	12-7	1920	14468	Fri	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB)
M12	12-7	1940	13368	Fri	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB)
M12	12-7	2100	10767	Fri	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB/RL)
M12	12-7	2120	10167	Fri	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB/RL)
M12	12-7	2140	9267	Fri	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB/RL)
M12	13-7	2100	10767	Sat	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB)
M12	13-7	2120	10167	Sat	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB)
M12	13-7	2140	9267	Sat	712 712 712 1 3355 125 3355 125 01803 51028 33837 ... 15637 99297 86823 000 000	CW	(AB)
M12	15-7	2000	12217	Mon	617 617 617 1 2562 47 2562 47 29909 20894 50020 ... 36667 94333 11396 000 000	CW	(AB)
M12	15-7	2020	10817	Mon	617 617 617 1 2562 47 2562 47 29909 20894 50020 ... 36667 94333 11396 000 000	CW	(AB)
M12	15-7	2040	9317	Mon	617 617 617 1 2562 47 2562 47 29909 20894 50020 ... 36667 94333 11396 000 000	CW	(AB)
M12	16-7	1100	11519	Tue	289 289 289 1 6315 55 6315 55 71635 80297 49790 ... 44789 91333 27382 000 000	CW	(AB)
M12	16-7	1120	12194	Tue	289 289 289 1 6315 55 6315 55 71635 80297 49790 ... 44789 91333 27382 000 000	CW	(AB)
M12	16-7	1140	13407	Tue	289 289 289 1 6315 55 6315 55 71635 80297 49790 ... 44789 91333 27382 000 000	CW	(AB)
M12	16-7	1800	12162	Tue	546 546 546 1 3732 51 3732 51 45183 65297 96287 ... 01729 51148 92511 000 000	CW	(AB)
M12	16-7	1820	11566	Tue	546 546 546 1 3732 51 3732 51 45183 65297 96287 ... 01729 51148 92511 000 000	CW	(AB)
M12	16-7	1840	10711	Tue	546 546 546 1 3732 51 3732 51 45183 65297 96287 ... 01729 51148 92511 000 000	CW	(AB)
M12	17-7	1900	14968	Wed	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB/RL)
M12	17-7	1920	14468	Wed	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB)
M12	17-7	1940	13368	Wed	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB)
M12	17-7	2310	16158	Wed	183 183 183 1 121 84 121 84 97247 81169 67182 ... 74163 49766 31415 000 000	CW	(RL)
M12	17-7	2330	14858	Wed	183 183 183 1 121 84 121 84 97247 81169 67182 ... 74163 49766 31415 000 000	CW	(RL)
M12	17-7	2350	14358	Wed	183 183 183 1 121 84 121 84 97247 81169 67182 ... 74163 49766 31415 000 000	CW	(RL)
M12	18-7	1800	11435	Thu	938 938 938 1 4325 80 4325 80 02570 18679 80601 ... 83033 91087 68052 000 000	CW	(AB)
M12	18-7	1820	10598	Thu	938 938 938 1 4325 80 4325 80 02570 18679 80601 ... 83033 91087 68052 000 000	CW	(AB)
M12	18-7	1840	9327	Thu	938 938 938 1 4325 80 4325 80 02570 18679 80601 ... 83033 91087 68052 000 000	CW	(AB)
M12	18-7	2000	12217	Thu	617 617 617 1 2562 47 2562 47 29909 20894 50020 ... 36667 94333 11396 000 000	CW	(AB/RL)
M12	18-7	2020	10817	Thu	617 617 617 1 2562 47 2562 47 29909 20894 50020 ... 36667 94333 11396 000 000	CW	(AB/RL)
M12	18-7	2040	9317	Thu	617 617 617 1 2562 47 2562 47 29909 20894 50020 ... 36667 94333 11396 000 000	CW	(AB/RL)
M12	19-7	1900	14968	Fri	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB/RL)
M12	19-7	1920	14468	Fri	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB/RL)
M12	19-7	1940	13368	Fri	943 943 943 1 9646 113 9646 113 31728 15200 46245 ... 88409 10213 23062 000 000	CW	(AB/RL)
M12	19-7	2100	10767	Fri	712 712 712 000	CW	(AB/RL)
M12	19-7	2120	10167	Fri	712 712 712 000	CW	(AB/RL)
M12	20-7	2100	10767	Sat	712 712 712 000	CW	(AB)
M12	20-7	2120	10167	Sat	712 712 712 000	CW	(AB)
M12	22-7	2000	12217	Mon	617 617 617 000	CW	(AB)
M12	22-7	2020	10817	Mon	617 617 617 000	CW	(AB)
M12	23-7	1100	11519	Tue	289 289 289 1 9301 57 9301 57 88209 54414 02488 ... 60166 42345 70236 000 000	CW	(AB)
M12	23-7	1120	12194	Tue	289 289 289 1 9301 57 9301 57 88209 54414 02488 ... 60166 42345 70236 000 000	CW	(AB)
M12	23-7	1140	13407	Tue	289 289 289 1 9301 57 9301 57 88209 54414 02488 ... 60166 42345 70236 000 000	CW	(AB)

M12	23-7	1800	12162	Tue	546 546 546 1 5172 58 5172 58 63478 53764 92857 ... 69495 66114 000 000	CW	(AB)
M12	23-7	1820	11566	Tue	546 546 546 1 5172 58 5172 58 63478 53764 92857 ... 69495 66114 000 000	CW	(AB)
M12	23-7	1840	10711	Tue	546 546 546 1 5172 58 5172 58 63478 53764 92857 ... 69495 66114 000 000	CW	(AB)
M12	24-7	1900	14968	Wed	943 943 943 000	CW	(AB)
M12	24-7	1920	14468	Wed	943 943 943 000	CW	(AB)
M12	25-7	1800	11435	Thu	938 938 938 1 2383 82 2383 82 59561 31447 96179 ... 62579 89905 27907 000 000	CW	(AB)
M12	25-7	1820	10598	Thu	938 938 938 1 2383 82 2383 82 59561 31447 96179 ... 62579 89905 27907 000 000	CW	(AB)
M12	25-7	1840	9327	Thu	938 938 938 1 2383 82 2383 82 59561 31447 96179 ... 62579 89905 27907 000 000	CW	(AB)
M12	25-7	2000	12217	Thu	617 617 617 000	CW	(AB/RL)
M12	25-7	2020	10817	Thu	617 617 617 000	CW	(AB/RL)
M12	26-7	1900	14968	Fri	943 943 943 000	CW	(AB/RL)
M12	26-7	1920	14468	Fri	943 943 943 000	CW	(AB/RL)
M12	26-7	2100	10767	Fri	712 712 712 1 2239 131 2239 131 09641 31662 79266 ... 11551 81366 77939 000 000	CW	(AB/RL)
M12	26-7	2120	10167	Fri	712 712 712 1 2239 131 2239 131 09641 31662 79266 ... 11551 81366 77939 000 000	CW	(AB/RL)
M12	26-7	2140	9267	Fri	712 712 712 1 2239 131 2239 131 09641 31662 79266 ... 11551 81366 77939 000 000	CW	(AB/RL)
M12	27-7	2100	10767	Sat	712 712 712 1 2239 131 2239 131 09641 31662 79266 ... 11551 81366 77939 000 000	CW	(AB)
M12	27-7	2120	10167	Sat	712 712 712 1 2239 131 2239 131 09641 31662 79266 ... 11551 81366 77939 000 000	CW	(AB)
M12	27-7	2140	9267	Sat	712 712 712 1 2239 131 2239 131 09641 31662 79266 ... 11551 81366 77939 000 000	CW	(AB)
M12	29-7	2000	12217	Mon	617 617 617 1 589 79 589 79 81020 43440 41352 ... 36692 81801 04218 000 000	CW	(AB/RL)
M12	29-7	2020	10817	Mon	617 617 617 1 589 79 589 79 81020 43440 41352 ... 36692 81801 04218 000 000	CW	(AB/RL)
M12	29-7	2040	9317	Mon	617 617 617 1 589 79 589 79 81020 43440 41352 ... 36692 81801 04218 000 000	CW	(AB/RL)
M12	30-7	1100	11519	Tue	289 289 289 1 6257 55 6257 55 74053 58656 75887 ... 27977 16752 66286 000 000	CW	(AB-S)
M12	30-7	1120	12194	Tue	289 289 289 1 6257 55 6257 55 74053 58656 75887 ... 27977 16752 66286 000 000	CW	(AB)
M12	30-7	1140	13407	Tue	289 289 289 1 6257 55 6257 55 74053 58656 75887 ... 27977 16752 66286 000 000	CW	(AB)
M12	30-7	1800	12162	Tue	546 546 546 1 1592 50 1592 50 28106 31810 27929 ... 67131 35120 31295 000 000	CW	(AB)
M12	30-7	1820	11566	Tue	546 546 546 1 1592 50 1592 50 28106 31810 27929 ... 67131 35120 31295 000 000	CW	(AB)
M12	30-7	1840	10711	Tue	546 546 546 1 1592 50 1592 50 28106 31810 27929 ... 67131 35120 31295 000 000	CW	(AB)
M12	31-7	1900	14968	Wed	943 943 943 1 4362 187 4362 187 187 71125 51908 50794 ... 13843 31887 09931 000 000	CW	(AB)
M12	31-7	1920	14468	Wed	943 943 943 1 4362 187 4362 187 187 71125 51908 50794 ... 13843 31887 09931 000 000	CW	(AB)
M12	31-7	1940	13368	Wed	943 943 943 1 4362 187 4362 187 187 71125 51908 50794 ... 13843 31887 09931 000 000	CW	(AB)
M14	1-7	0500	12211	Mon	952 103 103 59 59 = = 91128 59398 25628 ... 81114 02507 80706 = = 103 103 59 59 00000	CW	(AB-J)
M14	1-7	0520	10243	Mon	952 103 103 59 59 = = 91128 59398 25628 ... 81114 02507 80706 = = 103 103 59 59 00000	CW	(AB-J)
M14	2-7	0500	12211	Tue	952 103 103 59 59 = = 91128 59398 25628 ... 81114 02507 80706 = = 103 103 59 59 00000	CW	(AB-J)
M14	2-7	0520	10243	Tue	952 103 103 59 59 = = 91128 59398 25628 ... 81114 02507 80706 = = 103 103 59 59 00000	CW	(AB-J)
M14	3-7	0500	12211	Wed	952 601 28 = 82672 49544 73012 ... 74476 29491 83265 = 601 28 952 874 32 = 21951 98340 83912 ... 40422 44694 31401 = 874 32 00000	CW	(AB-J)
M14	3-7	0520	10243	Wed	952 601 28 = 82672 49544 73012 ... 74476 29491 83265 = 601 28 952 874 32 = 21951 98340 83912 ... 40422 44694 31401 = 874 32 00000	CW	(AB-J)
M14	4-7	0500	12211	Thu	952 601 28 = 82672 49544 73012 ... 74476 29491 83265 = 601 28 952 874 32 = 21951 98340 83912 ... 40422 44694 31401 = 874 32 00000	CW	(AB-J)
M14	4-7	0520	10243	Thu	952 601 28 = 82672 49544 73012 ... 74476 29491 83265 = 601 28 952 874 32 = 21951 98340 83912 ... 40422 44694 31401 = 874 32 00000	CW	(AB-J)

M14	5-7	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	5-7	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	8-7	0500	12211	Mon	not heard	CW	(AB-J)
M14	8-7	0500	12211	Mon	952 387 387 60 60 = = 45206 47331 14921 ... 21579 91782 65453 = = 387 387 60 60 00000	CW	(AB-J)
M14	8-7	0520	10243	Mon	952 387 387 60 60 = = 45206 47331 14921 ... 21579 91782 65453 = = 387 387 60 60 00000	CW	(AB-J)
M14	8-7	0520	10243	Mon	faint signal audible	CW	(AB-PHL)
M14	9-7	0500	12211	Tue	952 387 387 60 60 = = 45206 47331 14921 ... 21579 91782 65453 = = 387 387 60 60 00000	CW	(AB-J)
M14	9-7	0520	10243	Tue	952 387 387 60 60 = = 45206 47331 14921 ... 21579 91782 65453 = = 387 387 60 60 00000	CW	(AB-J)
M14	10-7	0500	12211	Wed	952 460 460 53 53 = = 96081 74214 34201 ... 53549 81101 39182 = = 460 460 53 53 00000	CW	(AB-J)
M14	10-7	0520	10243	Wed	952 460 460 53 53 = = 96081 74214 34201 ... 53549 81101 39182 = = 460 460 53 53 00000	CW	(AB-J)
M14	10-7	0930	16347	Wed	617 617 617 00000	CW	(AB/HFD)
M14	11-7	0500	12211	Thu	952 460 460 53 53 = = 96081 74214 34201 ... 53549 81101 39182 = = 460 460 53 53 00000	CW	(AB-J)
M14	11-7	0520	10243	Thu	952 460 460 53 53 = = 96081 74214 34201 ... 53549 81101 39182 = = 460 460 53 53 00000	CW	(AB-J)
M14	11-7	0930	14878	Thu	617 617 617 00000	CW	(HFD)
M14	12-7	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	12-7	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	12-7	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	12-7	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	15-7	0500	12211	Mon	Test tone. No transmission	CW	(AB-J)
M14	15-7	0520	10243	Mon	952 317 317 52 52 = = 11797 76499 27750 ... 23584 89289 40490 = = 317 317 52 52 00000	CW	(AB-KOR)
M14	16-7	0500	12211	Tue	952 317 317 52 52 = = 11797 76499 27750 ... 23584 89289 40490 = = 317 317 52 52 00000	CW	(AB-J)
M14	16-7	0520	10243	Tue	952 317 317 52 52 = = 11797 76499 27750 ... 23584 89289 40490 = = 317 317 52 52 00000	CW	(AB-J)
M14	17-7	0500	12211	Wed	952 806 34 = 93324 61150 97913 ... 43108 97917 07403 = = 806 34 952 134 18 = 53405 84821 97104 ... 56888 27017 66239 = = 134 18 00000	CW	(AB-J)
M14	17-7	0520	10243	Wed	952 806 34 = 93324 61150 97913 ... 43108 97917 07403 = = 806 34 952 134 18 = 53405 84821 97104 ... 56888 27017 66239 = = 134 18 00000	CW	(AB-J)
M14	18-7	0500	12211	Thu	952 134 134 18 18 = = 53405 84821 97104, switched to inverted morse (1m10s), carrier only (7m), inverted morse (10s), 952 off. "V" at 0517z	CW	(AB-J)
M14	18-7	0520	10243	Thu	952 134 18 = 53405 84821 97104 ... 56888 27017 66239 = = 134 18 952 806 34 = 93324 61150 97913 ... 43108 97917 07403 = = 806 34 00000	CW	(AB-J)
M14	19-7	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	19-7	0520	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	22-7	0500	12211	Mon	952 786 786 54 54 = = 25581 54534 60023 ... 05941 15752 67863 = = 786 786 54 54 00000	CW	(AB-J)
M14	22-7	0520	10243	Mon	952 786 786 54 54 = = 25581 54534 60023 ... 05941 15752 67863 = = 786 786 54 54 00000	CW	(AB-KOR)
M14	23-7	0500	12211	Tue	952 786 786 54 54 = = 25581 54534 60023 ... 05941 15752 67863 = = 786 786 54 54 00000	CW	(AB-J)
M14	23-7	0520	10243	Tue	952 786 786 54 54 = = 25581 54534 60023 ... 05941 15752 67863 = = 786 786 54 54 00000	CW	(AB-J)
M14	24-7	0500	12211	Wed	952 403 26 = 31887 25384 29484 ... 88580 06549 18712 = 403 26 952 761 28 61521 22573 90048 ... 79964 53607 31709 = 761 28 00000	CW	(AB-J/AtB)
M14	24-7	0520	10243	Wed	952 403 26 = 31887 25384 29484 ... 88580 06549 18712 = 403 26 952 761 28 61521 22573 90048 ... 79964 53607 31709 = 761 28 00000	CW	(AB-J)
M14	25-7	0500	12211	Thu	952 403 26 = 31887 25384 29484 ... 88580 06549 18712 = 403 26 952 761 28 61521 22573 90048 ... 79964 53607 31709 = 761 28 00000. Inverted morse after gr 8. Restart.	CW	(AB-J/AtB)

M14	25-7	0520	10243	Thu	952 403 26 = 31887 25384 29484 ... 88580 06549 18712 = 403 26 952 761 28 61521 22573 90048 ... 79964 53607 31709 = 761 28 00000	CW	(AB-J)
M14	25-7	0930	16347	Thu	617 617 617 00000	CW	(AB)
M14	26-7	0508	12211	Fri	925 925 925 00000 (late start)	CW	(AB-J)
M14	26-7	0520	12211	Fri	925 925 925 00000 (should be on 10243 kHz)	CW	(AB-J)
M14	29-7	0500	12211	Mon	952 483 483 50 50 = = 99560 55584 09386 ... 81030 01685 72497 = = 483 483 50 50 00000. M14/S06 mix-up	CW	(AB-J)
M14	29-7	0520	10243	Mon	952 483 483 50 50 = = 99560 55584 09386 ... 81030 01685 72497 = = 483 483 50 50 00000. M14/S06 mix-up	CW	(AB-J)
M14	30-7	0500	12211	Tue	952 192 192 50 50 = = 92350 00308 04659 ... 78329 33675 85027 = = 192 192 50 50 00000. M14/S06 mix-up	CW	(AB-J)
M14	30-7	0520	10243	Tue	952 (R4m) off	CW	(AB-J)
M14	31-7	0500	12211	Wed	952 170 170 50 50 = = 92350 00308 04659 ... 78329 33675 85027 = = 192 192 50 50 00000 Repeat of 30 July with a different 3-digit group.	CW	(AB-J)
M14	31-7	0520	10243	Wed	Not monitored	CW	(AB-J)
M21	8-7	1935	7949.4	Mon	Russian Air Defense =992236??8????? =992237??8?????	CW	(KX0DW-J)
M21	8-7	1935	9174.9	Mon	Russian Air Defense =99?2305?9????? =99?2308?9?????	CW	(KX0DW-J)
M42	1-7	0759	12148	Mon	Russian diplo	MFSK-66	(RO)
M42	3-7	0819	14633	Wed	Russian diplo	MFSK-66	(RO)
M42	3-7	0826	14636	Wed	Russian diplo	MFSK-66	(RO)
M42	4-7	0702	19511	Thu	Russian diplo	MFSK-66	(RO)
M42	4-7	0746	16022	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	4-7	0747	17515	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	4-7	0751	16022	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	4-7	0752	17515	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	4-7	0800	17521	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	4-7	0801	16026	Thu	Russian diplo	Serdolik v2	(RO)
M42	4-7	0804	17512	Thu	Russian diplo	OFDM-112	(RO)
M42	4-7	0844	18230	Thu	Russian diplo	Serdolik v2	(RO)
M42	4-7	0900	18230	Thu	Russian diplo	Serdolik v2	(RO)
M42	4-7	0907	18230	Thu	Russian diplo	Serdolik v2	(RO)
M42	4-7	0916	20844	Thu	Russian diplo	MFSK-66	(RO)
M42	4-7	1317	16315	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	4-7	1324	16315	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	4-7	1325	16313	Thu	Russian diplo	Serdolik v2	(RO)
M42	4-7	1331	16315	Thu	Russian diplo. Selcal	Serdolik v2	(RO)
M42	4-7	1334	16313	Thu	Russian diplo	Serdolik v2	(RO)
M42	8-7	0759	13417	Mon	Russian diplo	OFDM-112	(RO)
M42	8-7	0809	17466	Mon	Russian diplo	Serdolik v2	(RO)
M42	8-7	0825	17466	Mon	Russian diplo	Serdolik v2	(RO)
M42	8-7	0934	19273	Mon	Russian diplo	Serdolik v2	(RO)
M42	9-7	0804	13420	Tue	Russian diplo	Serdolik v2	(RO)

M42	9-7	1007	20815	Tue	Russian diplo	Serdolik v2	(RO)
M42	10-7	0729	13460	Wed	Russian diplo	MFSK-66	(RO)
M42	11-7	0802	16062	Thu	Russian diplo	Serdolik v2	(RO)
M42	12-7	0639	13432	Fri	Russian diplo	Serdolik v2	(AB/RO)
M42	12-7	0639	13532	Fri	Russian diplo. Selcal	Serdolik v2	(RO)
M42	12-7	0833	13473	Fri	Russian diplo	MFSK-66	(RO)
M42	12-7	0835	13431	Fri	Russian diplo	MFSK-66	(RO)
M42	14-7	1040	15985	Sun	Russian diplo	MFSK-66	(RO)
M42	14-7	1050	10865	Sun	Russian diplo	MFSK-66	(T101)
M42	15-7	0723	13520	Mon	Russian diplo	MFSK-66	(RO)
M42	24-7	0757	12147	Wed	Russian diplo	MFSK-66	(AB)
M42	26-7	0654	11159	Fri	Russian diplo	MFSK-66	(AB)
MX	23-7	1605	13527.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	23-7	1605	13528.1	Tue	Beacon S, Severomorsk	CW	(AB)
MX	23-7	1605	16331.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	23-7	1605	16331.9	Tue	Beacon S, Severomorsk	CW	(AB)
MX	23-7	1605	16332	Tue	Beacon C, Moscow	CW	(AB)
MX	23-7	1605	16332.1	Tue	Beacon S, Severomorsk	CW	(AB)
MX	23-7	1606	8494.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	23-7	1606	8495	Tue	Beacon C, Moscow	CW	(AB)
MX	23-7	1606	10871.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	23-7	1606	10871.8	Tue	Beacon P, Kaliningrad	CW	(AB)
MX	23-7	1606	10871.9	Tue	Beacon S, Severomorsk	CW	(AB)
MX	23-7	1607	7508.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	23-7	1607	7508.9	Tue	Beacon S, Severomorsk	CW	(AB)
MX	23-7	1607	7509	Tue	Beacon C, Moscow	CW	(AB)
MX	23-7	1615	5154.2	Tue	Beacon F, Vladivostok	CW	(AB)
MX	23-7	1615	5154.3	Tue	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB)
MX	23-7	1615	5154.4	Tue	Beacon M, Magadan	CW	(AB)
MX	23-7	1616	7039.3	Tue	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB)
MX	23-7	1616	7039.4	Tue	Beacon M, Magadan	CW	(AB)
MX	23-7	1617	8495.2	Tue	Beacon F, Vladivostok	CW	(AB)
MX	23-7	1617	8495.3	Tue	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB)
MX	23-7	1617	10872.3	Tue	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB)
MX	23-7	1617	10872.4	Tue	Beacon M, Magadan	CW	(AB)
MX	23-7	1618	13528.3	Tue	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB)
MX	23-7	1618	13528.4	Tue	Beacon M, Magadan	CW	(AB)
MX	23-7	1618	16332.3	Tue	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB)
MX	23-7	1618	20047.7	Tue	Beacon D, Sevastopol	CW	(AB)
MX	23-7	1618	20047.9	Tue	Beacon S, Severomorsk	CW	(AB)
P03	2-7	1725	14410	Tue	Polish intel.	PSK	(AB)
P03	2-7	1730	14410	Tue	Polish intel.	PSK	(AB)

P03	5-7	1500	9179	Fri	Polish intel.	PSK	(AB)
P03	5-7	1505	9179	Fri	Polish intel.	PSK	(AB)
P03	7-7	0530	7894	Sun	Polish intel.	PSK	(AB)
P03	7-7	0535	7894	Sun	Polish intel.	PSK	(AB)
P03	7-7	1725	14410	Sun	Polish intel.	PSK	(AB)
P03	7-7	1730	14410	Sun	Polish intel.	PSK	(AB)
P03	7-7	1950	8759	Sun	Polish intel.	PSK	(AB)
P03	7-7	1955	8759	Sun	Polish intel.	PSK	(AB)
P03	9-7	1725	14410	Tue	Polish intel.	PSK	(AB)
P03	9-7	1730	14410	Tue	Polish intel.	PSK	(AB)
P03	10-7	1030	9179	Wed	Polish intel.	PSK	(AB)
P03	10-7	1035	9179	Wed	Polish intel.	PSK	(AB)
P03	10-7	1100	7727	Wed	Polish intel.	PSK	(AB)
P03	10-7	1105	7727	Wed	Polish intel.	PSK	(AB)
P03	10-7	1310	13427	Wed	Polish intel.	PSK	(AB)
P03	10-7	1315	13427	Wed	Polish intel.	PSK	(AB)
P03	11-7	1950	8759	Thu	Polish intel.	PSK	(AB)
P03	11-7	1955	8759	Thu	Polish intel.	PSK	(AB)
P03	12-7	0530	7894	Fri	Polish intel.	PSK	(AB)
P03	12-7	0535	7894	Fri	Polish intel.	PSK	(AB)
P03	12-7	1100	9399	Fri	Polish intel.	PSK	(AB)
P03	12-7	1105	9399	Fri	Polish intel.	PSK	(AB)
P03	12-7	1500	9179	Fri	Polish intel.	PSK	(AB)
P03	12-7	1505	9179	Fri	Polish intel.	PSK	(AB)
P03	12-7	1515	20167	Fri	Polish intel.	PSK	(AB)
P03	12-7	1520	20167	Fri	Polish intel.	PSK	(AB)
P03	14-7	1020	7504	Sun	Polish intel.	PSK	(AB)
P03	14-7	1025	7504	Sun	Polish intel.	PSK	(AB)
P03	14-7	1100	9399	Sun	Polish intel.	PSK	(AB)
P03	14-7	1105	9399	Sun	Polish intel.	PSK	(AB)
P03	14-7	1220	18168	Sun	Polish intel.	PSK	(AB)
P03	14-7	1225	18168	Sun	Polish intel.	PSK	(AB)
P03	14-7	1245	6304	Sun	Polish intel.	PSK	(AB)
P03	14-7	1250	6304	Sun	Polish intel.	PSK	(AB)
P03	14-7	1515	20167	Sun	Polish intel.	PSK	(AB)
P03	14-7	1520	20167	Sun	Polish intel.	PSK	(AB)
P03	14-7	1725	14410	Sun	Polish intel.	PSK	(AB)
P03	14-7	1730	14410	Sun	Polish intel.	PSK	(AB)
P03	14-7	1950	8759	Sun	Polish intel.	PSK	(AB)
P03	14-7	1955	8759	Sun	Polish intel.	PSK	(AB)
P03	15-7	1030	9179	Mon	Polish intel.	PSK	(AB)
P03	15-7	1035	9179	Mon	Polish intel.	PSK	(AB)

P03	15-7	1220	18168	Mon	Polish intel.	PSK	(AB)
P03	15-7	1225	18168	Mon	Polish intel.	PSK	(AB)
P03	16-7	1100	7727	Tue	Polish intel.	PSK	(AB)
P03	16-7	1105	7727	Tue	Polish intel.	PSK	(AB)
P03	16-7	1500	9179	Tue	Polish intel.	PSK	(AB)
P03	16-7	1505	9179	Tue	Polish intel.	PSK	(AB)
P03	16-7	1725	14410	Tue	Polish intel.	PSK	(AB)
P03	16-7	1730	14410	Tue	Polish intel.	PSK	(AB)
P03	17-7	1030	9179	Wed	Polish intel.	PSK	(AB)
P03	17-7	1035	9179	Wed	Polish intel.	PSK	(AB)
P03	17-7	1100	7727	Wed	Polish intel.	PSK	(AB)
P03	17-7	1105	7727	Wed	Polish intel.	PSK	(AB)
P03	17-7	1310	13427	Wed	Polish intel.	PSK	(AB)
P03	17-7	1315	13427	Wed	Polish intel.	PSK	(AB)
P03	18-7	1950	8759	Thu	Polish intel.	PSK	(AB)
P03	18-7	1955	8759	Thu	Polish intel.	PSK	(AB)
P03	19-7	0530	7894	Fri	Polish intel.	PSK	(AB)
P03	19-7	0535	7894	Fri	Polish intel.	PSK	(AB)
P03	19-7	1100	9399	Fri	Polish intel.	PSK	(AB)
P03	19-7	1105	9399	Fri	Polish intel.	PSK	(AB)
P03	19-7	1500	9179	Fri	Polish intel.	PSK	(AB)
P03	19-7	1505	9179	Fri	Polish intel.	PSK	(AB)
P03	19-7	1515	20167	Fri	Polish intel.	PSK	(AB-CYP)
P03	19-7	1520	20167	Fri	Polish intel.	PSK	(AB-CYP)
P03	20-7	1020	7504	Sat	Polish intel.	PSK	(AB)
P03	20-7	1025	7504	Sat	Polish intel.	PSK	(AB)
P03	20-7	1245	6304	Sat	Polish intel.	PSK	(AB)
P03	20-7	1250	6304	Sat	Polish intel.	PSK	(AB)
P03	20-7	1310	13427	Sat	Polish intel.	PSK	(AB)
P03	20-7	1315	13427	Sat	Polish intel.	PSK	(AB)
P03	21-7	0530	7894	Sun	Polish intel.	PSK	(AB)
P03	21-7	0535	7894	Sun	Polish intel.	PSK	(AB)
P03	21-7	1020	7504	Sun	Polish intel.	PSK	(AB)
P03	21-7	1025	7504	Sun	Polish intel.	PSK	(AB)
P03	21-7	1100	9399	Sun	Polish intel.	PSK	(AB)
P03	21-7	1105	9399	Sun	Polish intel.	PSK	(AB)
P03	21-7	1220	18168	Sun	Polish intel.	PSK	(AB-POL)
P03	21-7	1225	18168	Sun	Polish intel.	PSK	(AB-POL)
P03	21-7	1245	6304	Sun	Polish intel.	PSK	(AB)
P03	21-7	1250	6304	Sun	Polish intel.	PSK	(AB)
P03	21-7	1515	20167	Sun	Polish intel.	PSK	(AB)
P03	21-7	1520	20167	Sun	Polish intel.	PSK	(AB)

P03	21-7	1725	14410	Sun	Polish intel.	PSK	(AB)
P03	21-7	1730	14410	Sun	Polish intel.	PSK	(AB)
P03	21-7	1950	8759	Sun	Polish intel.	PSK	(AB)
P03	21-7	1955	8759	Sun	Polish intel.	PSK	(AB)
P03	22-7	1030	9179	Mon	Polish intel.	PSK	(AB)
P03	22-7	1035	9179	Mon	Polish intel.	PSK	(AB)
P03	23-7	1100	7727	Tue	Polish intel.	PSK	(AB)
P03	23-7	1105	7727	Tue	Polish intel.	PSK	(AB)
P03	23-7	1500	9179	Tue	Polish intel.	PSK	(AB)
P03	23-7	1505	9179	Tue	Polish intel.	PSK	(AB)
P03	23-7	1725	14410	Tue	Polish intel.	PSK	(AB)
P03	23-7	1730	14410	Tue	Polish intel.	PSK	(AB)
P03	24-7	1030	9179	Wed	Polish intel.	PSK	(AB)
P03	24-7	1035	9179	Wed	Polish intel.	PSK	(AB)
P03	24-7	1100	7727	Wed	Polish intel.	PSK	(AB)
P03	24-7	1105	7727	Wed	Polish intel.	PSK	(AB)
P03	24-7	1310	13427	Wed	Polish intel.	PSK	(AB)
P03	24-7	1315	13427	Wed	Polish intel.	PSK	(AB)
P03	25-7	1950	8759	Thu	Polish intel.	PSK	(AB)
P03	25-7	1955	8759	Thu	Polish intel.	PSK	(AB)
P03	26-7	0530	7894	Fri	Polish intel.	PSK	(AB)
P03	26-7	0535	7894	Fri	Polish intel.	PSK	(AB)
P03	26-7	1100	9399	Fri	Polish intel.	PSK	(AB)
P03	26-7	1105	9399	Fri	Polish intel.	PSK	(AB)
P03	26-7	1500	9179	Fri	Polish intel.	PSK	(AB)
P03	26-7	1505	9179	Fri	Polish intel.	PSK	(AB)
P03	26-7	1515	20167	Fri	Polish intel.	PSK	(AB-CYP)
P03	26-7	1520	20167	Fri	Polish intel.	PSK	(AB-CYP)
P03	27-7	1020	7504	Sat	Polish intel.	PSK	(AB)
P03	27-7	1025	7504	Sat	Polish intel.	PSK	(AB)
P03	27-7	1245	6304	Sat	Polish intel.	PSK	(AB)
P03	27-7	1250	6304	Sat	Polish intel.	PSK	(AB)
P03	27-7	1310	13427	Sat	Polish intel.	PSK	(AB)
P03	27-7	1315	13427	Sat	Polish intel.	PSK	(AB)
P03	28-7	0530	7894	Sun	Polish intel.	PSK	(AB)
P03	28-7	0535	7894	Sun	Polish intel.	PSK	(AB)
P03	28-7	1020	7504	Sun	Polish intel.	PSK	(AB)
P03	28-7	1025	7504	Sun	Polish intel.	PSK	(AB)
P03	28-7	1100	9399	Sun	Polish intel.	PSK	(AB)
P03	28-7	1105	9399	Sun	Polish intel.	PSK	(AB)
P03	28-7	1220	18168	Sun	Polish intel.	PSK	(AB-POL)
P03	28-7	1225	18168	Sun	Polish intel.	PSK	(AB-POL)

P03	28-7	1245	6304	Sun	Polish intel.	PSK	(AB)
P03	28-7	1250	6304	Sun	Polish intel.	PSK	(AB)
P03	28-7	1515	20167	Sun	Polish intel.	PSK	(AB)
P03	28-7	1520	20167	Sun	Polish intel.	PSK	(AB)
P03	28-7	1725	14410	Sun	Polish intel.	PSK	(AB)
P03	28-7	1730	14410	Sun	Polish intel.	PSK	(AB)
P03	28-7	1950	8759	Sun	Polish intel.	PSK	(AB)
P03	28-7	1955	8759	Sun	Polish intel.	PSK	(AB)
P03	29-7	1030	9179	Mon	Polish intel.	PSK	(AB)
P03	29-7	1035	9179	Mon	Polish intel.	PSK	(AB)
P03	29-7	1220	18168	Mon	Polish intel.	PSK	(AB-POL)
P03	29-7	1225	18168	Mon	Polish intel.	PSK	(AB-POL)
P03	30-7	1100	7727	Tue	Polish intel.	PSK	(AB)
P03	30-7	1105	7727	Tue	Polish intel.	PSK	(AB)
P03	30-7	1500	9179	Tue	Polish intel.	PSK	(AB)
P03	30-7	1505	9179	Tue	Polish intel.	PSK	(AB)
P03	30-7	1725	14410	Tue	Polish intel.	PSK	(AB)
P03	30-7	1730	14410	Tue	Polish intel.	PSK	(AB)
P03j	3-7	0630	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	3-7	0635	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	5-7	1315	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	5-7	1320	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	8-7	0630	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	8-7	0635	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	10-7	0630	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	10-7	0635	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	10-7	1315	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	10-7	1320	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-7	1315	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	12-7	1320	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	15-7	0630	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	15-7	0635	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	17-7	0630	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	17-7	0635	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	17-7	1315	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	17-7	1320	16335	Wed	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-7	1315	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	19-7	1320	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	22-7	0630	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	22-7	0635	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-7	1315	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	26-7	1320	16335	Fri	Polish intel.	QPSK 100Bd/504bp	(AB)

P03j	29-7	0630	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	29-7	0635	17535	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	31-7	0630	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB-POL)
P03j	31-7	0635	17535	Wed	Polish intel.	QPSK 100Bd/504bp	(AB-POL)
P03k	6-7	1730	9431	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-7	1735	9431	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-7	0630	8196	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-7	0635	8196	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-7	0630	8196	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-7	0635	8196	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-7	1730	9431	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-7	1735	9431	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-7	0630	8196	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-7	0635	8196	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-7	1230	22998	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-7	1235	22998	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-7	1730	9431	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-7	1735	9431	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-7	0630	8196	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-7	0635	8196	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-7	1230	22998	Tue	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	23-7	1235	22998	Tue	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	24-7	1730	9431	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-7	1735	9431	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-7	0630	8196	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-7	0635	8196	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-7	1230	22998	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-7	1235	22998	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-7	1730	9431	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-7	1735	9431	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-7	0630	8196	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-7	0635	8196	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-7	1230	22998	Tue	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03k	30-7	1235	22998	Tue	Polish intel.	BPSK 100Bd/480bp	(AB-POL)
P03l	4-7	1200	9968	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-7	1205	9968	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-7	1200	9968	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-7	1205	9968	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-7	1345	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-7	1350	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	11-7	1200	9968	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	11-7	1205	9968	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	12-7	1345	13424	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-7	1350	13424	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-7	1200	9968	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-7	1205	9968	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-7	1345	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-7	1350	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-7	1200	9968	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-7	1205	9968	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-7	1345	13424	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-7	1350	13424	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-7	1200	9968	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-7	1205	9968	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-7	1345	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-7	1350	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-7	1200	9968	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-7	1205	9968	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-7	1345	13424	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-7	1350	13424	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-7	1200	9968	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-7	1205	9968	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P07	3-7	1400	9368	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-7	1410	8185	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-7	1420	7704	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-7	1430	6872	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-7	1440	5861	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-7	1450	5386	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-7	1400	9368	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-7	1410	8185	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-7	1420	7704	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-7	1430	6872	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-7	1440	5861	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-7	1450	5386	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-7	1400	9368	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-7	1410	8185	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-7	1420	7704	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-7	1430	6872	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-7	1440	5861	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-7	1450	5386	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-7	1400	9368	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-7	1410	8185	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-7	1420	7704	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-7	1430	6872	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

P07	14-7	1440	5861	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-7	1450	5386	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-7	1400	9368	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-7	1410	8185	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-7	1420	7704	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-7	1430	6872	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-7	1440	5861	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-7	1450	5386	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-7	1400	9368	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-7	1410	8185	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-7	1420	7704	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-7	1430	6872	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-7	1440	5861	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-7	1450	5386	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-7	1400	9368	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-7	1410	8185	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-7	1420	7704	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-7	1430	6872	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-7	1440	5861	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-7	1450	5386	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-7	1400	9368	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-7	1410	8185	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-7	1420	7704	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-7	1430	6872	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-7	1440	5861	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-7	1450	5386	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-7	1400	9368	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-7	1410	8185	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-7	1420	7704	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-7	1430	6872	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-7	1440	5861	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-7	1450	5386	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
Q26	15-7	0951	13200	Mon	XWR 91 45 0715 1720 7413---4777 4836 7169 ... 7125 9108 8540 WK NR 2049	4+4 QPSK 75/1000 LSB	(EW)
S06	1-7	0400	11616	Mon	480 597 60 20994 59294 34068 ... 45168 78846 85406 597 60 00000	USB	(Subilo)
S06	1-7	0420	9322	Mon	480 597 60 20994 59294 34068 ... 45168 78846 85406 597 60 00000	USB	(Subilo/Lac)
S06	2-7	0400	11616	Tue	480 597 60 20994 59294 34068 ... 45168 78846 85406 597 60 00000	USB	(Subilo/Lac)
S06	2-7	0420	9322	Tue	480 597 60 20994 59294 34068 ... 45168 78846 85406 597 60 00000	USB	(Subilo/Lac)
S06	3-7	0400	11616	Wed	480 623 24 40492 48444 44681 ... 43601 81288 37393 623 24 480 917 29 92454 09428 37359 ... 94876 44533 99698 917 29 00000	USB	(Subilo)
S06	3-7	0420	9322	Wed	480 623 24 40492 48444 44681 ... 43601 81288 37393 623 24 480 917 29 92454 09428 37359 ... 94876 44533 99698 917 29 00000	USB	(Subilo)
S06	4-7	0400	11616	Thu	480 623 24 40492 48444 44681 ... 43601 81288 37393 623 24 480 917 29 92454 09428	USB	(Subilo)

					37359 ... 94876 44533 99698 917 29 00000		
S06	4-7	0420	9322	Thu	480 623 24 40492 48444 44681 ... 43601 81288 37393 623 24 480 917 29 92454 09428 37359 ... 94876 44533 99698 917 29 00000	USB	(Subilo)
S06	5-7	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	5-7	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	5-7	2000	11149	Fri	842 842 842 00000	USB	(AB/HFD)
S06	5-7	2100	9205	Fri	842 842 842 00000	USB	(AB/HFD)
S06	8-7	0400	11616	Mon	480 362 51 31866 75385 36092 ... 46268 71096 11649 362 51 00000	USB	(Subilo)
S06	8-7	0420	9322	Mon	480 362 51 31866 75385 36092 ... 46268 71096 11649 362 51 00000	USB	(Subilo)
S06	9-7	0400	11616	Tue	480 362 51 31866 75385 36092 ... 46268 71096 11649 362 51 00000	USB	(Subilo)
S06	9-7	0420	9322	Tue	480 362 51 31866 75385 36092 ... 46268 71096 11649 362 51 00000	USB	(Subilo)
S06	10-7	0400	11616	Wed	480 159 60 01234 32055 89919 ... 98326 53160 95072 159 60 00000	USB	(Subilo/Lac)
S06	10-7	0420	9322	Wed	480 159 60 01234 32055 89919 ... 98326 53160 95072 159 60 00000	USB	(Subilo/Lac)
S06	11-7	0400	11616	Thu	480 159 60 01234 32055 89919 ... 98326 53160 95072 159 60 00000	USB	(Subilo)
S06	11-7	0420	9322	Thu	480 159 60 01234 32055 89919 ... 98326 53160 95072 159 60 00000	USB	(Subilo)
S06	12-7	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	12-7	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	15-7	0400	11616	Mon	480 237 59 78707 85274 65609 ... 49558 95506 50771 237 59 00000	USB	(Subilo)
S06	15-7	0420	9322	Mon	480 237 59 78707 85274 65609 ... 49558 95506 50771 237 59 00000	USB	(Subilo)
S06	16-7	0400	11616	Tue	480 237 59 78707 85274 65609 ... 49558 95506 50771 237 59 00000	USB	(Subilo)
S06	16-7	0420	9322	Tue	480 237 59 78707 85274 65609 ... 49558 95506 50771 237 59 00000	USB	(Subilo)
S06	17-7	0400	11616	Wed	480 651 23 22980 97036 11697 ... 96432 20702 24812 651 23 480 972 31 81229 28224 10977 ... 02057 79690 72233 972 31 00000	USB	(Subilo)
S06	17-7	0420	9322	Wed	480 651 23 22980 97036 11697 ... 96432 20702 24812 651 23 480 972 31 81229 28224 10977 ... 02057 79690 72233 972 31 00000	USB	(Subilo)
S06	18-7	0400	11616	Thu	480 651 23 22980 97036 11697 ... 96432 20702 24812 651 23 480 972 31 81229 28224 10977 ... 02057 79690 72233 972 31 00000	USB	(Lac)
S06	18-7	0420	9322	Thu	480 (R4m) then off	USB	(Lac)
S06	19-7	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	19-7	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	19-7	2000	11149	Fri	842 842 842 00000	USB	(AB)
S06	19-7	2100	9205	Fri	842 842 842 00000	USB	(AB)
S06	23-7	0400	11616	Tue	480 635 57 38858 51376 91705 ... 41091 97841 32031 635 57 00000	USB	(Subilo)
S06	23-7	0400	11616	Tue	480 635 57 38858 51376 91705 ... 41091 97841 32031 635 57 00000	USB	(Subilo)
S06	23-7	0420	9322	Tue	480 635 57 38858 51376 91705 ... 41091 97841 32031 635 57 00000	USB	(Subilo)
S06	23-7	0420	9322	Tue	480 635 57 38858 51376 91705 ... 41091 97841 32031 635 57 00000	USB	(Subilo)
S06	24-7	0400	11616	Wed	480 912 33 01842 00133 53849 ... 49211 86410 61728 912 33 480 763 25 14506 29578 45856 ... 30990 02068 10067 763 25 00000	USB	(Subilo)
S06	24-7	0420	9322	Wed	480 912 33 01842 00133 53849 ... 49211 86410 61728 912 33 480 763 25 14506 29578 45856 ... 30990 02068 10067 763 25 00000	USB	(Subilo)
S06	25-7	0400	11616	Thu	480 912 33 01842 00133 53849 ... 49211 86410 61728 912 33 480 763 25 14506 29578 45856 ... 30990 02068 10067 763 25 00000	USB	(Subilo)

S06	25-7	0420	9322	Thu	480 912 33 01842 00133 53849 ... 49211 86410 61728 912 33 480 763 25 14506 29578 45856 ... 30990 02068 10067 763 25 00000	USB	(Subilo)
S06	26-7	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	26-7	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	29-7	0400	11616	Mon	480 192 50 92350 00308 04659 ... 78329 33675 85027 192 50 00000. M14/S06 mix-up	USB	(AB/Subilo)
S06	29-7	0420	9322	Mon	Off at 0424z. Preamble at 0425z. Off after group 12. M14/S06 mix-up	USB	(AB/Subilo)
S06	30-7	0400	11616	Tue	480 483 50 99560 55584 09386 ... 81030 01685 72497 483 50 00000. M14/S06 mix-up	USB	(AB/Lac)
S06	30-7	0420	9322	Tue	480 483 50 99560 55584 09386 ... 81030 01685 72497 483 50 00000. M14/S06 mix-up	USB	(AB/Subilo)
S06	31-7	0400	11616	Wed	No transmission	USB	(Subilo)
S06	31-7	0420	9322	Wed	480 573 60 95775 91715 20145 ... 04731 87925 90340 573 60 00000	USB	(Subilo)
S11a	1-7	0510	16357	Mon	659/00 Konets	USB	(Lac)
S11a	1-7	0700	9339	Mon	475/00 Konets	USB	(AB)
S11a	1-7	0915	6814	Mon	487/35 Vnimaniye 42991 43657 40428 ... 48851 90049 84308 Vnimaniye (msg rptd) Konets	USB	(AB/Lac/Subilo)
S11a	2-7	0445	9968	Tue	796/33 Vnimaniye 18004 98785 54692 ... 16212 46846 30294 Vnimaniye (msg rptd) Konets	USB	(AB/Lac/Subilo)
S11a	2-7	1400	9448	Tue	427/00 Konets	USB	(AB)
S11a	3-7	0510	16357	Wed	652/00 Konets	USB	(AB-POL)
S11a	4-7	0445	9968	Thu	796/33 Vnimaniye 18004 98785 54692 ... 16212 46846 30294 Vnimaniye (msg rptd) Konets	USB	(AB/Subilo)
S11a	4-7	0700	9339	Thu	478/00 Konets	USB	(AB)
S11a	5-7	0725	20905	Fri	385/00 Konets	USB	(AB-POL)
S11a	5-7	0915	6814	Fri	487/35 Vnimaniye 52991 43657 40428 ... 48851 90049 84308 Vnimaniye (msg rptd) Konets	USB	(Subilo)
S11a	5-7	1400	9448	Fri	420/00 Konets	USB	(AB)
S11a	6-7	0830	5149	Sat	379/00 Konets	USB	(AB)
S11a	6-7	1850	12457	Sat	280/00 Konets	USB	(AB)
S11a	7-7	0830	5149	Sun	379/00 Konets	USB	(AB)
S11a	8-7	0510	16357	Mon	654/00 Konets	USB	(AB)
S11a	8-7	0700	9339	Mon	470/00 Konets	USB	(AB/Subilo)
S11a	8-7	0915	6814	Mon	485/00 Konets	USB	(AB)
S11a	9-7	0445	9968	Tue	793/00 Konets	USB	(AB)
S11a	9-7	1400	9448	Tue	426/00 Konets	USB	(AB)
S11a	10-7	0510	16357	Wed	654/00 Konets	USB	(AB-POL)
S11a	10-7	0725	20905	Wed	380/00 Konets	USB	(AB-KWT)
S11a	10-7	1850	12457	Wed	287/38 Vnimaniye 49704 72519 67075 ... 29727 87174 31667 Vnimaniye (msg rptd) Konets	USB	(AB/Subilo)
S11a	11-7	0700	9339	Thu	476/36 Vnimaniye 93668 85271 40645 ... 64019 85626 23514 Vnimaniye (msg rptd) Konets. Off after gr 19 during the repeat	USB	(AB/Subilo)
S11a	12-7	0725	20905	Fri	382/00 Konets	USB	(AB-KWT)
S11a	12-7	0915	6814	Fri	480/00 Konets	USB	(AB)
S11a	12-7	1400	9448	Fri	427/00 Konets	USB	(AB)
S11a	13-7	1850	12457	Sat	287/38 Vnimaniye 49704 72519 67075 ... 29727 87174 31667 Vnimaniye (msg rptd) Konets	USB	(AB/Subilo)
S11a	14-7	0830	5149	Sun	376/00 Konets	USB	(AB)
S11a	15-7	0510	16357	Mon	656/00 Konets	USB	(AB-POL)
S11a	15-7	0700	9339	Mon	477/00 Konets	USB	(AB)
S11a	15-7	0915	6814	Mon	486/37 Vnimaniye 90709 77739 24906 ... 24840 off. Off after group 19	USB	(AB/Subilo)

S11a	16-7	0445	9968	Tue	790/00 Konets	USB	(AB)
S11a	16-7	1400	9448	Tue	425/37 Vnimaniye 20181 74917 94057 ... 98445 27181 31037 Vnimaniye (msg rptd) Konets	USB	(AB-D/Lac/Subilo)
S11a	17-7	0510	16357	Wed	650/00 Konets	USB	(TM)
S11a	17-7	0725	20905	Wed	382/00 Konets	USB	(AB-KWT)
S11a	17-7	1850	12457	Wed	286/00 Konets	USB	(AB)
S11a	18-7	0445	9968	Thu	799/00 Konets	USB	(AB)
S11a	18-7	0700	9339	Thu	475/00 Konets	USB	(AB)
S11a	19-7	0725	20905	Fri	384/00 Konets	USB	(AB-KWT)
S11a	19-7	0915	6814	Fri	486/37 Vnimaniye 90709 77739 24906 ... 89132 74607 21054 Vnimaniye (msg rptd) Konets	USB	(AB/Subilo)
S11a	19-7	1400	9448	Fri	425/37 Vnimaniye 20181 74917 94057 ... 98445 27181 31037 Vnimaniye (msg rptd) Konets	USB	(AB/Subilo)
S11a	20-7	0830	5149	Sat	373/00 Konets	USB	(AB)
S11a	20-7	1850	12457	Sat	285/00 Konets	USB	(AB)
S11a	21-7	0830	5149	Sun	376/00 Konets	USB	(AB)
S11a	22-7	0510	16357	Mon	656/00 Konets	USB	(AB-POL)
S11a	22-7	0700	9339	Mon	475/00 Konets	USB	(AB)
S11a	22-7	0915	6814	Mon	484/00 Konets	USB	(AB)
S11a	23-7	0445	9968	Tue	797/00 Konets	USB	(AB)
S11a	23-7	1400	9448	Tue	426/00 Konets	USB	(AB-D)
S11a	24-7	0510	16357	Wed	654/00 Konets	USB	(TM)
S11a	24-7	0725	20905	Wed	383/36 Vnimaniye 49051 28876 39992 ... 53212 75598 00812 Vnimaniye (msg rptd) Konets	USB	(Subilo)
S11a	24-7	1850	12457	Wed	285/00 Konets	USB	(AB)
S11a	25-7	0445	9968	Thu	794/00 Konets	USB	(AB)
S11a	25-7	0700	9339	Thu	477/00 Konets	USB	(AB)
S11a	26-7	0725	20905	Fri	383/36 Vnimaniye 49051 28876 39992 ... 53212 75598 00812 Vnimaniye (msg rptd) Konets	USB	(Subilo)
S11a	26-7	0915	6814	Fri	485/00 Konets	USB	(AB)
S11a	26-7	1400	9448	Fri	426/00 Konets	USB	(AB)
S11a	27-7	0830	5149	Sat	373/31 Vnimaniye 88806 31451 72379 ... 25119 77160 78073 Vnimaniye (msg rptd) Konets	USB	(AB/Subilo)
S11a	27-7	1850	12457	Sat	280/00 Konets	USB	(AB)
S11a	28-7	0830	5149	Sun	373/31 Vnimaniye 88806 31451 72379 ... 25119 77160 78073 Vnimaniye (msg rptd) Konets	USB	(AB-POL/Subilo)
S11a	29-7	0700	9339	Mon	471/00 Konets	USB	(AB/Lac)
S11a	29-7	0915	6814	Mon	482/00 Konets	USB	(AB/Lac)
S11a	30-7	1400	9448	Tue	425/00 Konets	USB	(AB
S11a	31-7	0510	16357	Wed	658/00 Konets (tentative, barely audible)	USB	(TM)
S11a	31-7	0725	20905	Wed	385/00 Konets	USB	(AB-POL)
UM04	1-7	0700	4735	Mon	VVVVV PROMRCh = 01 07 = 1000 0860 0890 0980 1340 ... 0800 0850 0880 0980 1320 = AR	CW	(AB-HNG)
UM04	2-7	0700	4735	Tue	VVV VVV PROMRCh = 02 07 = 1000 0860 0890 0980 1350 ... 0800 0840 0870 0980 1320 = AR	CW	(AB-HNG)
UM04	3-7	0700	4735	Wed	VVV VVV PROMRCh = 03 07 = 1000 0850 0880 0970 1350 ... 0800 0830 0860 0960 1300 = AR	CW	(AB-HNG)
UM04	4-7	0700	4735	Thu	VVV VVV PROMRCh = 04 07 = 1000 0850 0830 0970 1350 ... 0800 0830 0850 0960 1300 = AR	CW	(Subilo)
UM04	5-7	0700	4735	Fri	VVV VVV PROMRCh = 05 07 = 1000 0850 0880 0970 1350 ... 0800 0830 0850 0960 1300 = AR	CW	(Subilo)
UM04	6-7	0700	4735	Sat	VVV VVV PROMRCh = 06 07 = 1000 0860 0880 0980 1350 ... 0800 0830 0860 0960 1300 = AR	CW	(Subilo)

UM04	7-7	0700	4735	Sun	VVVVV PROMRCh = 07 07 = 1000 0870 0890 0980 1350 ... 0800 0840 0870 0970 1310 = AR	CW	(AB-HNG)
UM04	8-7	0700	4735	Mon	VVV VVV PROMRCh = 08 07 = 1000 0870 0890 0990 1350 ... 0800 0840 0870 0970 1310 = AR	CW	(AB-HNG)
UM04	9-7	0700	4735	Tue	VVV VVV PROMRCh = 09 07 = 1000 0880 0900 1000 1350 ... 0800 0850 0880 0980 1320 = AR	CW	(AB-HNG)
UM04	10-7	0700	4735	Wed	VVVVV PROMRCh = 10 07 = 1000 0880 0910 1000 1350 ... 0800 0850 0870 0970 1310 = AR	CW	(AB-HNG)
UM04	11-7	0700	4735	Thu	VVV VVV PROMRCh = 11 07 = 1000 0880 0910 1000 1350 ... 0800 0840 0870 0970 1310 = AR	CW	(AB-HNG)
UM04	12-7	0700	4735	Fri	VVV VVV PROMRCh = 12 07 = 1000 0880 0900 0990 1350 ... 0800 0850 0870 0970 1320 = AR	CW	(AB-HNG)
UM04	13-7	0700	4735	Sat	VVV VVV PROMRCh = 13 07 = 1000 0880 0910 1000 1350 ... 0800 0850 0870 0970 1310 = AR	CW	(AB-HNG)
UM04	14-7	0700	4735	Sun	VVV VVV PROMRCh = 14 07 = 1000 0880 0900 0990 1350 ... 0800 0840 0870 0970 1300 = AR	CW	(AB-ROU)
UM04	15-7	0700	4735	Mon	VVVVV PROMRCh = 15 07 = 1000 0880 0900 1000 1350 ... 0800 0840 0870 0970 1310 = AR	CW	(Subilo)
UM04	16-7	0700	4735	Tue	Active but unreadable	CW	(AB-HNG)
UM04	16-7	0700	4735	Tue	VVV VVV PROMRCh = 16 07 = 1000 0870 0890 0990 1350 ... 0800 0840 0870 0970 1310 = AR	CW	(Subilo)
UM04	18-7	0700	4735	Thu	VVV VVV PROMRCh = 18 07 = 1000 0880 0900 0990 1350 ... 0800 0850 0880 0970 1310 = AR	CW	(AB-HNG)
UM04	19-7	0700	4735	Fri	VVV VVV PROMRCh = 19 07 = 1000 0880 0910 1000 1350 ... 0800 0860 0880 0980 1320 = AR	CW	(AB-HNG)
UM04	20-7	0700	4735	Sat	VVV VVV PROMRCh = 20 07 = 1000 0890 0910 1000 1350 ... 0800 0860 0890 0990 1330 = AR	CW	(Subilo)
UM04	21-7	0700	4735	Sun	VVV VVV PROMRCh = 21 07 = 1000 0900 0920 1000 1350 ... 0800 0870 0900 1000 1330 = AR	CW	(AB-ROU)
UM04	22-7	0700	4735	Mon	VVV VVV PROMRCh = 22 07 = 1000 0900 0930 1010 1350 ... 0800 0880 0910 1010 1340 = AR	CW	(AB-HNG)
UM04	23-7	0700	4735	Tue	VVVVVVV PROMRCh = 2307 = 1000 0900 0920 1010 1350 ... 0800 0880 0910 1010 1350 = AR	CW	(AB-HNG)
UM04	24-7	0700	4735	Wed	VVV VVV PROMRCh = 24 07 = 1000 0090 0920 1010 1450 ... 0800 0780 0910 1000 1340 = AR	CW	(Subilo)
UM04	25-7	0700	4735	Thu	VVV VVV PROMRCh = 25 07 = 1000 0890 0920 1000 1350 ... 0800 0870 0900 1000 1330 = AR	CW	(AB-HNG)
UM04	26-7	0700	4735	Fri	VVV VVV PROMRCh = 26 07 = 1000 0890 0920 1000 1350 ... 0800 0870 0900 0990 1330 = AR	CW	(AB-HNG)
UM04	27-7	0700	4735	Sat	VVV VVV PROMRCh = 27 07 = 1000 0890 0920 1000 1350 ... 0800 0870 0900 0990 1330 = AR	CW	(Subilo)
UM04	28-7	0700	4735	Sun	VVVVV PROMRCh = 2807 = 1000 0890 0910 1000 1350 ... 0800 0860 0890 0980 1320 = AR	CW	(AB-HNG)
UM04	29-7	0700	4735	Mon	VVV VVV PROMRCh = 29 07 = 1000 0880 0910 0990 1350 ... 0800 0860 0880 0980 1320 = AR	CW	(AB-HNG)
UM04	30-7	0700	4735	Tue	VVVVV PROMRCh = 30 07 = 1000 0890 0910 1000 1350 ... 0800 0860 0890 0980 1320 = AG AR	CW	(AB-HNG)
UM04	31-7	0700	4735	Wed	VVV VVV PROMRCh = 31 07 = Barely audible. Unreadable.	CW	(Subilo)
UM05	1-7	0510	5345.8	Mon	Poulet (R), Lac (R), etc.	CW	(AB)
UM05	2-7	0513	5345.8	Tue	Sousmarin (R), Aimer (R), etc.	CW	(AB-F)
UM05	3-7	0451	5345.8	Wed	Sentiment (R), Pharmacie (R), Bus (R), etc.	CW	(AB-D)
UM05	4-7	0459	5435.8	Thu	Refrigerateur (R), Poids (R), etc.	CW	(AB-D)
UM05	5-7	0503	5345.8	Fri	Servette (R), Evaluation (R), Soleil (R), etc.	CW	(AB)
UM05	6-7	0515	5345.8	Sat	The (R), 4 (R), etc.	CW	(AB-D)
UM05	7-7	0547	5345.8	Sun	I (R), Mois (R), etc.	CW	(AB-D)
UM05	8-7	0512	5345.8	Mon	Decouverte (R), Savon (R), etc.	CW	(AB)
UM05	9-7	0502	5345.8	Tue	Sante (R), Bureau (R), Mot (R), etc.	CW	(AB-F)
UM05	10-7	0525	5345.8	Wed	Exploration (R), Experience (R), Cinema (R), etc.	CW	(AB-D)
UM05	10-7	2106	5435.8	Wed	Nuit (R), Koala (R), Depart (R), 1 (R), etc.	CW	(AB)
UM05	11-7	0753	5345.8	Thu	Sculpture (R), Neige (R), etc.	CW	(AB-F)
UM05	12-7	0444	5345.8	Fri	Detruire (R), Argument (R), R (R), etc.	CW	(AB)
UM05	13-7	0642	5345.8	Sat	Aimer (R), Attraper (R), Idee (R), etc.	CW	(AB-D)
UM05	14-7	0533	5345.8	Sun	Conversation (R), 8 (R), etc.	CW	(AB-D)
UM05	15-7	0424	5345.8	Mon	Lac (R), Passager (R), etc.	CW	(AB)
UM05	16-7	0605	5345.8	Tue	K (R), Amer (R), etc.	CW	(AB-F)

UM05	17-7	0439	5345.8	Wed	Bibliotheque (R), Tasse (R), etc	CW	(AB-F)
UM05	18-7	0504	5345.8	Thu	Conversation (R), Annee (R), etc.	CW	(AB-F)
UM05	19-7	0503	5345.8	Fri	Takahe (R), Merle (R), etc.	CW	(AB)
UM05	20-7	0523	5345.8	Sat	Casher (R), Distance (R), etc.	CW	(AB-D)
UM05	21-7	0529	5345.8	Sun	Neige (R), Araignee (R), Oiseau (R), etc.	CW	(AB-D)
UM05	22-7	0520	5345.8	Mon	1 (R), etc.	CW	(AB)
UM05	23-7	0452	5345.8	Tue	Poulet (R), Htel (R), etc.	CW	(AB-F)
UM05	24-7	0434	5345.8	Wed	Recreation (R), Chaussures (R), etc.	CW	(AB-F)
UM05	25-7	0504	5345.8	Thu	Volcan (R), Wallaby (R), etc.	CW	(AB-F)
UM05	26-7	0527	5345.8	Fri	K (R), Riviere (R), etc.	CW	(AB)
UM05	27-7	0551	5345.8	Sat	8 (R), Bague (R), etc.	CW	(AB-D)
UM05	28-7	0530	5345.8	Sun	Natation (R), Chaussures (R), Soir (R), etc.	CW	(AB-F)
UM05	29-7	0434	5345.8	Mon	Parapluie (R), G (R), Mardi (R), etc.	CW	(AB)
UM05	30-7	0459	5345.8	Tue	Credit (R), Mars (R), etc.	CW	(AB-F)
UM05	31-7	0603	5345.8	Wed	Lampe (R), Evaluation (R), Mouvement (R), etc.	CW	(AB-F)
UM06	10-7	2103	7542	Wed	i.p. 22222 (R) TUORS RTSMA UKEMO BDTOP XKOCE RTSMA 55555 (R) XKOCE BDTOP XKOCE BDTOP RTSMA BDTOP BDTOP BDTOP 55555 (R) etc.	CW	(AB)
V07	7-7	0700	13978	Sun	931 931 931 1 532 103 532 103 18335 99334 11430 ... 85390 31093 99615 000 000	USB	(AB-J/HFD-USA)
V07	7-7	0720	13378	Sun	931 931 931 1 532 103 532 103 18335 99334 11430 ... 85390 31093 99615 000 000	USB	(AB-J/HFD-USA))
V07	7-7	0740	12178	Sun	931 931 931 1 532 103 532 103 18335 99334 11430 ... 85390 31093 99615 000 000	USB	(AB-J/HFD-USA)
V07	14-7	0700	13978	Sun	931 931 931 1 2446 96 2446 96 92545 69258 11453 ... 53539 51422 73047 000 000	USB	(AB-J/Dan)
V07	14-7	0720	13378	Sun	931 931 931 1 2446 96 2446 96 92545 69258 11453 ... 53539 51422 73047 000 000	USB	(AB-J)
V07	14-7	0740	12178	Sun	931 931 931 1 2446 96 2446 96 92545 69258 11453 ... 53539 51422 73047 000 000	USB	(AB-J)
V07	21-7	0700	13978	Sun	931 931 931 1 109 87 109 87 62917 91822 72955 ... 80236 51411 06047 000 000	USB	(AB-J)
V07	21-7	0720	13378	Sun	931 931 931 1 109 87 109 87 62917 91822 72955 ... 80236 51411 06047 000 000	USB	(AB-J)
V07	21-7	0740	12178	Sun	931 931 931 1 109 87 109 87 62917 91822 72955 ... 80236 51411 06047 000 000	USB	(AB-J)
V07	28-7	0700	13978	Sun	931 931 931 1 610 74 610 74 01229 04130 95937 ... 95295 82183 70291 000 000	USB	(AB-J)
V07	28-7	0720	13378	Sun	931 931 931 1 610 74 610 74 01229 04130 95937 ... 95295 82183 70291 000 000	USB	(AB-J)
V07	28-7	0740	12178	Sun	931 931 931 1 610 74 610 74 01229 04130 95937 ... 95295 82183 70291 000 000	USB	(AB-J)
V13	2-7	0000	15890	Tue	New Star Broadcast. Station 3. Messages for units 3281, 3360, 9123	USB	(FSpy)
V13	8-7	0030	15890	Mon	Station 3. Messages to units 0521, 8643, 9614	USB	(FSpy)
V13	8-7	0130	19052	Mon	Station 1. Messages to units 3497, 5874, 7867	USB	(FSpy)
V13	8-7	0330	9276	Mon	Station 2. Messages to units 0225, 5351, 8760	USB	(FSpy)
V13	20-7	0030	15890	Sat	Station 3. Messages to units 2956, 5759, 7516	USB	(FSpy)
V13	20-7	0300	9276	Sat	Station 2. Messages to units 0562, 2953, 6351	USB	(FSpy)
V13	20-7	0330	11430	Sat	Station 1. Messages to units 0519, 7455, 7544	USB	(FSpy)
V13	21-7	0000	15890	Sun	Station 3. Messages to units 0989, 2513, 8536	USB	(FSpy)
V13	21-7	0100	20025	Sun	Station 4. Messages to units 4671, 6195, 6719	USB	(FSpy)
V13	21-7	0300	9276	Sun	Station 2. Messages to units 0314, 8272, 9527	USB	(FSpy)
V13	29-7	0330	11430	Mon	Station 1. Messages to units 4152, 6324, 8759	USB	(FSpy)
V13	29-7	1200	15890	Mon	Station 3, Messages to units 1684, 2413, 5822	USB	(FSpy)
V13	31-7	0330	9276	Wed	Station 2. Messages to units 4883, 5234, 9448	USB	(FSpy)

VC02	8-7	1826	8198	Mon	i.p. 5603 5102 3926 5104 4137 5104 7101 ...	USB	(KX0DW-J)
VC02	8-7	1831	8198	Mon	4445 5346 46 5045 47 71 31 0709 0150 5253 ... 5390 2956 3434	USB	(KX0DW-J)
VC02	8-7	1857	7921	Mon	i.p. 5369 3987 3098 1758 9124 9183 0327 6483 0216 8963 ...	USB	(KX0DW-J)
X06	1-7	0705	11638	Mon	MFA Moscow clg 165324: Russian embassy Vienna	MFSK-6	(Moon)
X06	1-7	0744	11562	Mon	MFA Moscow clg 432516: Russian embassy Bern	MFSK-6	(Moon)
X06	1-7	0804	13395	Mon	MFA Moscow clg 532614: Russian embassy Paris	MFSK-6	(Moon)
X06	1-7	0916	20675	Mon	MFA Moscow clg 641523: Russian embassy Lusaka	MFSK-6	(Moon)
X06	3-7	0820	17445	Wed	MFA Moscow clg 362154: Russian embassy Athens	MFSK-6	(RO)
X06	3-7	1129	16115	Wed	MFA Moscow clg 215346: Russian Consulate General Mumbai	MFSK-6	(RO)
X06	3-7	1155	14650	Wed	MFA Moscow clg 215346: Russian Consulate General Mumbai	MFSK-6	(Moon)
X06	4-7	0708	19511	Thu	MFA Moscow clg 314265: Russian embassy Antananarivo	MFSK-6	(AB/RO)
X06	4-7	0741	19405	Thu	MFA Moscow clg 352416: Russian embassy Dar es Salaam	MFSK-6	(RO)
X06	4-7	0923	20837	Thu	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City	MFSK-6	(RO)
X06	4-7	1357	20627	Thu	MFA Moscow clg 436512: Russian embassy Harare	MFSK-6	(RO)
X06	8-7	0814	17475	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(RO)
X06	8-7	0823	20690	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(RO)
X06	8-7	0927	19235	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(Moon)
X06	8-7	1001	17520	Mon	MFA Moscow clg 612534: Russian embassy Ashgabat	MFSK-6	(Moon)
X06	8-7	1014	17470	Mon	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(RO)
X06	9-7	0801	17523	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(RO)
X06	10-7	0723	11483	Wed	MFA Moscow clg 412356: Russian embassy Budapest	MFSK-6	(RO)
X06	11-7	0806	16153	Thu	MFA Moscow clg 153624: Russian embassy Damascus	MFSK-6	(RO)
X06	12-7	0447	15920	Fri	MFA Moscow clg 216435: Russian embassy Dhaka	MFSK-6	(RO)
X06	12-7	0646	13427	Fri	MFA Moscow clg 341265: unid embassy	MFSK-6	(AB)
X06	14-7	1115	15710	Sun	MFA Moscow clg 261453: Russian embassy Cairo	MFSK-6	(RO)
X06	15-7	0728	20675	Mon	MFA Moscow clg 641523: Russian embassy Lusaka	MFSK-6	(RO)
X06	15-7	0954	18750	Mon	MFA Moscow clg 641523: Russian embassy Lusaka	MFSK-6	(RO)
X06	15-7	1007	23355	Mon	MFA Moscow clg 641523: Russian embassy Lusaka	MFSK-6	(RO)
X06	17-7	0644	14405	Wed	MFA Moscow clg 256341: Russian embassy Beirut	MFSK-6	(RO)
X06	19-7	1342	16320	Fri	MFA Moscow clg 241563: Russian Consulate General Karachi	MFSK-6	(AB)
X06	26-7	0647	11155	Fri	MFA Moscow clg 341265: unid embassy	MFSK-6	(AB)
X06	26-7	1139	20605	Fri	MFA Moscow clg 256134: Russian embassy Abidjan	MFSK-6	(AB)
XPA1	3-7	1210	13368	Wed	311 311 311 1 07866 00124 11860 ... 28661 82090 46627	MFSK-20/10Bd	(AB/HFD)
XPA1	3-7	1230	12168	Wed	311 311 311 1 07866 00124 11860 ... 28661 82090 46627	MFSK-20/10Bd	(AB/HFD)
XPA1	3-7	1250	11168	Wed	311 311 311 1 07866 00124 11860 ... 28661 82090 46627	MFSK-20/10Bd	(AB/HFD)
XPA1	5-7	1210	13368	Fri	311 311 311 1 07866 00124 11860 ... 28661 82090 46627	MFSK-20/10Bd	(AB)
XPA1	5-7	1230	12168	Fri	311 311 311 1 07866 00124 11860 ... 28661 82090 46627	MFSK-20/10Bd	(AB)
XPA1	5-7	1250	11168	Fri	311 311 311 1 07866 00124 11860 ... 28661 82090 46627	MFSK-20/10Bd	(AB)
XPA1	10-7	1210	13368	Wed	311 311 311 000 01990 00001 00000 35662	MFSK-20/10Bd	(AB)
XPA1	10-7	1230	12168	Wed	311 311 311 000 01990 00001 00000 35662	MFSK-20/10Bd	(AB)
XPA1	10-7	1250	11168	Wed	311 311 311 000 01990 00001 00000 35662	MFSK-20/10Bd	(AB)
XPA1	12-7	1210	13368	Fri	311 311 311 000 06603 00001 00000 35656	MFSK-20/10Bd	(AB)

XPA1	12-7	1230	12168	Fri	311 311 311 000 06603 00001 00000 35656	MFSK-20/10Bd	(AB)
XPA1	12-7	1250	11168	Fri	311 311 311 000 06603 00001 00000 35656	MFSK-20/10Bd	(AB)
XPA1	17-7	1210	13368	Wed	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	17-7	1230	12168	Wed	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	17-7	1250	11168	Wed	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	19-7	1210	13368	Fri	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	19-7	1230	12168	Fri	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	19-7	1250	11168	Fri	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	24-7	1210	13368	Wed	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	24-7	1230	12168	Wed	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	24-7	1250	11168	Wed	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	26-7	1210	13368	Fri	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	26-7	1230	12168	Fri	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	26-7	1250	11168	Fri	311 311 311 1 00560 00137 17045 ... 21074 18528 77150	MFSK-20/10Bd	(AB)
XPA1	31-7	1210	13368	Wed	311 311 311 000 03539 00001 00000 40256	MFSK-20/10Bd	(AB)
XPA1	31-7	1230	12168	Wed	311 311 311 000 03539 00001 00000 40256	MFSK-20/10Bd	(AB)
XPA1	31-7	1250	11168	Wed	311 311 311 000 03539 00001 00000 40256	MFSK-20/10Bd	(AB)
XPA2	1-7	0700	12148	Mon	09553 00128 72277 ... 59913 08315 25745	MFSK-16/20Bd	(AB/HFD)
XPA2	1-7	0720	13448	Mon	09553 00128 72277 ... 59913 08315 25745	MFSK-16/20Bd	(AB/HFD)
XPA2	1-7	0740	13948	Mon	09553 00128 72277 ... 59913 08315 25745	MFSK-16/20Bd	(AB/HFD)
XPA2	1-7	0910	16296	Mon	09141 00001 00000 32265	MFSK-16/20Bd	(AB/HFD)
XPA2	1-7	0930	14981	Mon	09141 00001 00000 32265	MFSK-16/20Bd	(AB/HFD)
XPA2	1-7	0950	13953	Mon	09141 00001 00000 32265	MFSK-16/20Bd	(AB/HFD)
XPA2	1-7	1500	13954	Mon	06442 00178 97144 ... 75993 85996 05212	MFSK-16/20Bd	(AB)
XPA2	1-7	1520	12154	Mon	06442 00178 97144 ... 75993 85996 05212	MFSK-16/20Bd	(AB)
XPA2	1-7	1540	11454	Mon	06442 00178 97144 ... 75993 85996 05212	MFSK-16/20Bd	(AB)
XPA2	2-7	0500	10243	Tue	00406 00132 12632 ... 74976 60674 62704	MFSK-16/20Bd	(AB)
XPA2	2-7	0520	11143	Tue	00406 00132 12632 ... 74976 60674 62704	MFSK-16/20Bd	(AB)
XPA2	2-7	0540	12143	Tue	00406 00132 12632 ... 74976 60674 62704	MFSK-16/20Bd	(AB)
XPA2	2-7	1100	14958	Tue	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	2-7	1120	13958	Tue	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	2-7	1140	12158	Tue	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	2-7	1600	13538	Tue	03501 00001 00000 34253	MFSK-16/20Bd	(AB/HFD)
XPA2	2-7	1620	14438	Tue	03501 00001 00000 34253	MFSK-16/20Bd	(AB/HFD)
XPA2	2-7	1640	14938	Tue	03501 00001 00000 34253	MFSK-16/20Bd	(AB/HFD)
XPA2	3-7	0700	12148	Wed	09553 00128 72277 ... 59913 08315 25745	MFSK-16/32Bd	(AB)
XPA2	3-7	0720	13448	Wed	09553 00128 72277 ... 59913 08315 25745	MFSK-16/32Bd	(AB)
XPA2	3-7	0740	13948	Wed	09553 00128 72277 ... 59913 08315 25745	MFSK-16/32Bd	(AB)
XPA2	3-7	0910	16296	Wed	04574 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	3-7	0930	14981	Wed	04574 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	3-7	0950	13953	Wed	04574 00001 00000 35663	MFSK-16/20Bd	(AB)
XPA2	3-7	1100	17435	Wed	03260 00001 00000 32261	MFSK-16/32Bd	(AB/HFD)

XPA2	3-7	1120	16235	Wed	03260 00001 00000 32261	MFSK-16/32Bd	(AB/HFD)
XPA2	3-7	1140	14935	Wed	03260 00001 00000 32261	MFSK-16/32Bd	(AB/HFD)
XPA2	3-7	1800	17474	Wed	00302 00180 37771 ... 91734 70234 04733	MFSK-16/32Bd	(AB/HFD)
XPA2	3-7	1820	16274	Wed	00302 00180 37771 ... 91734 70234 04733	MFSK-16/32Bd	(AB/HFD)
XPA2	3-7	1840	14574	Wed	00302 00180 37771 ... 91734 70234 04733	MFSK-16/32Bd	(AB/HFD)
XPA2	4-7	0500	10243	Thu	00406 00132 12632 ... 74976 60674 62704	MFSK-16/32Bd	(AB/HFD)
XPA2	4-7	0520	11143	Thu	00406 00132 12632 ... 74976 60674 62704	MFSK-16/32Bd	(AB/HFD)
XPA2	4-7	0540	12143	Thu	00406 00132 12632 ... 74976 60674 62704	MFSK-16/32Bd	(AB/HFD)
XPA2	4-7	0630	18243	Thu	08192 00156 61880 ...07842 51692 60544	MFSK-16/32Bd	(AB)
XPA2	4-7	0650	19643	Thu	08192 00156 61880 ...07842 51692 60544	MFSK-16/32Bd	(AB)
XPA2	4-7	0910	13445	Thu	Off during the callup	MFSK-16/32Bd	(AB/HFD)
XPA2	4-7	0930	12145	Thu	08234 00001 00000 34263	MFSK-16/32Bd	(AB/HFD)
XPA2	4-7	0950	11545	Thu	08234 00001 00000 34263	MFSK-16/32Bd	(AB/HFD)
XPA2	4-7	1100	17435	Thu	03773 00001 00000 36262	MFSK-16/32Bd	(AB)
XPA2	4-7	1120	16235	Thu	03773 00001 00000 36262	MFSK-16/32Bd	(AB)
XPA2	4-7	1140	14935	Thu	03773 00001 00000 36262	MFSK-16/32Bd	(AB)
XPA2	4-7	1600	13538	Thu	03650 00001 00000 34260	MFSK-16/20Bd	(AB)
XPA2	4-7	1620	14438	Thu	03650 00001 00000 34260	MFSK-16/20Bd	(AB)
XPA2	4-7	1640	14938	Thu	03650 00001 00000 34260	MFSK-16/20Bd	(AB)
XPA2	5-7	1100	14958	Fri	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB/HFD)
XPA2	5-7	1120	13958	Fri	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB/HFD)
XPA2	5-7	1140	12158	Fri	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB/HFD)
XPA2	5-7	1800	17474	Fri	00302 00180 37771 ... 91734 70234 04733	MFSK-16/32Bd	(AB)
XPA2	5-7	1820	16274	Fri	00302 00180 37771 ... 91734 70234 04733	MFSK-16/32Bd	(AB)
XPA2	5-7	1840	14574	Fri	00302 00180 37771 ... 91734 70234 04733	MFSK-16/32Bd	(AB)
XPA2	6-7	0910	13445	Sat	08308 00001 00000 36660	MFSK-16/32Bd	(AB)
XPA2	6-7	0930	12145	Sat	08308 00001 00000 36660	MFSK-16/32Bd	(AB)
XPA2	6-7	0950	11545	Sat	08308 00001 00000 36660	MFSK-16/32Bd	(AB)
XPA2	6-7	1500	13954	Sat	06442 00178 97144 ... 75993 85996 05212	MFSK-16/20Bd	(AB/HFD)
XPA2	6-7	1520	12154	Sat	06442 00178 97144 ... 75993 85996 05212	MFSK-16/20Bd	(AB/HFD)
XPA2	6-7	1540	11454	Sat	06442 00178 97144 ... 75993 85996 05212	MFSK-16/20Bd	(AB/HFD)
XPA2	8-7	0700	12148	Mon	05944 00001 00000 37661	MFSK-16/20Bd	(AB)
XPA2	8-7	0720	13448	Mon	05944 00001 00000 37661	MFSK-16/20Bd	(AB)
XPA2	8-7	0740	13948	Mon	05944 00001 00000 37661	MFSK-16/20Bd	(AB)
XPA2	8-7	0910	16296	Mon	09276 00154 39151 ... 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	8-7	0930	14981	Mon	09276 00154 39151 ... 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	8-7	0950	13953	Mon	09276 00154 39151 ... 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	8-7	1500	13954	Mon	05668 00001 00000 40653	MFSK-16/20Bd	(AB)
XPA2	8-7	1520	12154	Mon	05668 00001 00000 40653	MFSK-16/20Bd	(AB)
XPA2	8-7	1540	11454	Mon	05668 00001 00000 40653	MFSK-16/20Bd	(AB)
XPA2	9-7	0500	10243	Tue	09365 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	9-7	0520	11143	Tue	09365 00001 00000 35267	MFSK-16/20Bd	(AB)

XPA2	9-7	0540	12143	Tue	09365 00001 00000 35267	MFSK-16/20Bd	(AB)
XPA2	9-7	0630	18243	Tue	03605 00001 00000 36653	MFSK-16/20Bd	(AB)
XPA2	9-7	0650	19643	Tue	03605 00001 00000 36653	MFSK-16/20Bd	(AB)
XPA2	9-7	1100	14958	Tue	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	9-7	1120	13958	Tue	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	9-7	1140	12158	Tue	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	9-7	1600	13538	Tue	06570 00001 00000 33665	MFSK-16/20Bd	(AB)
XPA2	9-7	1620	14438	Tue	06570 00001 00000 33665	MFSK-16/20Bd	(AB)
XPA2	9-7	1640	14938	Tue	06570 00001 00000 33665	MFSK-16/20Bd	(AB)
XPA2	10-7	0700	12148	Wed	07841 00001 00000 35663	MFSK-16/32Bd	(AB)
XPA2	10-7	0720	13448	Wed	07841 00001 00000 35663	MFSK-16/32Bd	(AB)
XPA2	10-7	0740	13948	Wed	07841 00001 00000 35663	MFSK-16/32Bd	(AB)
XPA2	10-7	0910	16296	Wed	09276 00154 39151 ... 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	10-7	0930	14981	Wed	09276 00154 39151 ... 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	10-7	0950	13953	Wed	09276 00154 39151 ... 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	10-7	1100	17435	Wed	08983 00195 84437 ... 74707 42133 36502	MFSK-16/32Bd	(AB)
XPA2	10-7	1120	16235	Wed	08983 00195 84437 ... 74707 42133 36502	MFSK-16/32Bd	(AB)
XPA2	10-7	1140	14935	Wed	08983 00195 84437 ... 74707 42133 36502	MFSK-16/32Bd	(AB)
XPA2	10-7	1800	17474	Wed	04631 00301 50569 ... 74975 09879 65557	MFSK-16/32Bd	(AB/RL)
XPA2	10-7	1820	16274	Wed	04631 00301 50569 ... 74975 09879 65557	MFSK-16/32Bd	(AB)
XPA2	10-7	1840	14574	Wed	04631 00301 50569 ... 74975 09879 65557	MFSK-16/32Bd	(AB)
XPA2	11-7	0500	10243	Thu	06267 00001 00000 3564	MFSK-16/32Bd	(AB)
XPA2	11-7	0520	11143	Thu	06267 00001 00000 3564	MFSK-16/32Bd	(AB)
XPA2	11-7	0540	12143	Thu	06267 00001 00000 3564	MFSK-16/32Bd	(AB)
XPA2	11-7	0630	18243	Thu	07400 00001 00000 33257	MFSK-16/32Bd	(AB)
XPA2	11-7	0650	19643	Thu	07400 00001 00000 33257	MFSK-16/32Bd	(AB)
XPA2	11-7	0710	20743	Thu	07400 00001 00000 33257	MFSK-16/32Bd	(AB-KWT)
XPA2	11-7	0910	13445	Thu	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	11-7	0930	12145	Thu	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	11-7	0950	11545	Thu	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	11-7	1100	17435	Thu	08983 00195 84437 ... 74707 42133 36502	MFSK-16/32Bd	(AB)
XPA2	11-7	1120	16235	Thu	08983 00195 84437 ... 74707 42133 36502	MFSK-16/32Bd	(AB)
XPA2	11-7	1140	14935	Thu	08983 00195 84437 ... 74707 42133 36502	MFSK-16/32Bd	(AB)
XPA2	11-7	1600	13538	Thu	06464 00001 00000 35264	MFSK-16/20Bd	(AB)
XPA2	11-7	1620	14438	Thu	06464 00001 00000 35264	MFSK-16/20Bd	(AB)
XPA2	11-7	1640	14938	Thu	06464 00001 00000 35264	MFSK-16/20Bd	(AB)
XPA2	12-7	1100	14958	Fri	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	12-7	1120	13958	Fri	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	12-7	1140	12158	Fri	00529 00093 31898 ... 15114 13824 53605	MFSK-16/20Bd	(AB)
XPA2	12-7	1800	17474	Fri	04631 00301 50569 ... 74975 09879 65557	MFSK-16/32Bd	(AB)
XPA2	12-7	1820	16274	Fri	04631 00301 50569 ... 74975 09879 65557	MFSK-16/32Bd	(AB)
XPA2	12-7	1840	14574	Fri	04631 00301 50569 ... 74975 09879 65557	MFSK-16/32Bd	(AB)

XPA2	13-7	0910	13445	Sat	05807 00154 54544 … 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	13-7	0930	12145	Sat	05807 00154 54544 … 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	13-7	0950	11545	Sat	05807 00154 54544 … 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	13-7	1500	13954	Sat	09535 00001 00000 36264	MFSK-16/20Bd	(AB)
XPA2	13-7	1520	12154	Sat	09535 00001 00000 36264	MFSK-16/20Bd	(AB)
XPA2	13-7	1540	11454	Sat	09535 00001 00000 36264	MFSK-16/20Bd	(AB)
XPA2	15-7	0700	12148	Mon	03032 00130 08806 … 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	15-7	0720	13448	Mon	03032 00130 08806 … 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	15-7	0740	13948	Mon	03032 00130 08806 … 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	15-7	0910	16296	Mon	09276 00154 39151 … 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	15-7	0930	14981	Mon	09276 00154 39151 … 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	15-7	0950	13953	Mon	09276 00154 39151 … 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	15-7	1500	13954	Mon	00591 00199 61650 … 87836 79147 76223	MFSK-16/20Bd	(AB)
XPA2	15-7	1520	12154	Mon	00591 00199 61650 … 87836 79147 76223	MFSK-16/20Bd	(AB)
XPA2	15-7	1540	11454	Mon	00591 00199 61650 … 87836 79147 76223	MFSK-16/20Bd	(AB)
XPA2	16-7	0500	10243	Tue	00105 00065 12241 … 03674 66269 67026	MFSK-16/20Bd	(AB)
XPA2	16-7	0520	11143	Tue	00105 00065 12241 … 03674 66269 67026	MFSK-16/20Bd	(AB)
XPA2	16-7	0540	12143	Tue	00105 00065 12241 … 03674 66269 67026	MFSK-16/20Bd	(AB)
XPA2	16-7	0630	18243	Tue	02602 00079 08697 … 67233 07777 17235	MFSK-16/20Bd	(AB)
XPA2	16-7	0650	19643	Tue	02602 00079 08697 … 67233 07777 17235	MFSK-16/20Bd	(AB)
XPA2	16-7	0710	20743	Tue	Off after a few seconds	MFSK-16/20Bd	(AB)
XPA2	16-7	1100	14958	Tue	05173 00001 00000 33264	MFSK-16/20Bd	(AB)
XPA2	16-7	1120	13958	Tue	05173 00001 00000 33264	MFSK-16/20Bd	(AB)
XPA2	16-7	1140	12158	Tue	05173 00001 00000 33264	MFSK-16/20Bd	(AB)
XPA2	16-7	1600	13538	Tue	00579 00180 28045 … 16509 70113 41600	MFSK-16/20Bd	(AB)
XPA2	16-7	1620	14438	Tue	00579 00180 28045 … 16509 70113 41600	MFSK-16/20Bd	(AB)
XPA2	16-7	1640	14938	Tue	00579 00180 28045 … 16509 70113 41600	MFSK-16/20Bd	(AB)
XPA2	17-7	0700	12148	Wed	03032 00130 08806 … 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	17-7	0720	13448	Wed	03032 00130 08806 … 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	17-7	0740	13948	Wed	03032 00130 08806 … 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	17-7	0910	16296	Wed	09276 00154 39151 … 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	17-7	0930	14981	Wed	09276 00154 39151 … 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	17-7	0950	13953	Wed	09276 00154 39151 … 43307 02942 53543	MFSK-16/20Bd	(AB)
XPA2	17-7	1100	17435	Wed	08747 00001 00000 40255	MFSK-16/32Bd	(AB)
XPA2	17-7	1120	16235	Wed	08747 00001 00000 40255	MFSK-16/32Bd	(AB)
XPA2	17-7	1140	14935	Wed	08747 00001 00000 40255	MFSK-16/32Bd	(AB)
XPA2	17-7	1800	17474	Wed	00288 00171 36102 … 50775 73116 16717	MFSK-16/32Bd	(AB)
XPA2	17-7	1820	16274	Wed	00288 00171 36102 … 50775 73116 16717	MFSK-16/32Bd	(AB)
XPA2	17-7	1840	14574	Wed	00288 00171 36102 … 50775 73116 16717	MFSK-16/32Bd	(AB)
XPA2	18-7	0500	10243	Thu	00105 00065 12241 … 03674 66269 67026	MFSK-16/20Bd	(AB)
XPA2	18-7	0520	11143	Thu	00105 00065 12241 … 03674 66269 67026	MFSK-16/20Bd	(AB)
XPA2	18-7	0540	12143	Thu	00105 00065 12241 … 03674 66269 67026	MFSK-16/20Bd	(AB)

XPA2	18-7	0630	18243	Thu	02602 00079 08697 ... 67233 07777 17235	MFSK-16/20Bd	(AB)
XPA2	18-7	0650	19643	Thu	02602 00079 08697 ... 67233 07777 17235	MFSK-16/20Bd	(AB)
XPA2	18-7	0710	20743	Thu	02602 00079 08697 ... 67233 07777 17235	MFSK-16/20Bd	(AB)
XPA2	18-7	0910	13445	Thu	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	18-7	0930	12145	Thu	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	18-7	0950	11545	Thu	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	18-7	1100	17435	Thu	09606 00001 00000 37261	MFSK-16/32Bd	(AB)
XPA2	18-7	1120	16235	Thu	09606 00001 00000 37261	MFSK-16/32Bd	(AB)
XPA2	18-7	1140	14935	Thu	09606 00001 00000 37261	MFSK-16/32Bd	(AB)
XPA2	18-7	1600	13538	Thu	00579 00180 28045 ... 16509 70113 41600	MFSK-16/20Bd	(AB)
XPA2	18-7	1620	14438	Thu	00579 00180 28045 ... 16509 70113 41600	MFSK-16/20Bd	(AB)
XPA2	18-7	1640	14938	Thu	00579 00180 28045 ... 16509 70113 41600	MFSK-16/20Bd	(AB)
XPA2	19-7	1100	14958	Fri	06469 00001 00000 37664	MFSK-16/20Bd	(AB)
XPA2	19-7	1120	13958	Fri	06469 00001 00000 37664	MFSK-16/20Bd	(AB)
XPA2	19-7	1140	12158	Fri	06469 00001 00000 37664	MFSK-16/20Bd	(AB)
XPA2	19-7	1800	17474	Fri	00288 00171 36102 ... 50775 73116 16717	MFSK-16/32Bd	(AB)
XPA2	19-7	1820	16274	Fri	00288 00171 36102 ... 50775 73116 16717	MFSK-16/32Bd	(AB)
XPA2	19-7	1840	14574	Fri	00288 00171 36102 ... 50775 73116 16717	MFSK-16/32Bd	(AB)
XPA2	20-7	0910	13445	Sat	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	20-7	0930	12145	Sat	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	20-7	0950	11545	Sat	05807 00154 54544 ... 59156 92262 21165	MFSK-16/32Bd	(AB)
XPA2	20-7	1500	13954	Sat	00591 00199 61650 ... 87836 79147 76223	MFSK-16/20Bd	(AB)
XPA2	20-7	1520	12154	Sat	00591 00199 61650 ... 87836 79147 76223	MFSK-16/20Bd	(AB)
XPA2	20-7	1540	11454	Sat	00591 00199 61650 ... 87836 79147 76223	MFSK-16/20Bd	(AB)
XPA2	22-7	0700	12148	Mon	03032 00130 08806 ... 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	22-7	0720	13448	Mon	03032 00130 08806 ... 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	22-7	0740	13948	Mon	03032 00130 08806 ... 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	22-7	0910	16296	Mon	06676 00001 00000 37265	MFSK-16/20Bd	(AB)
XPA2	22-7	0930	14981	Mon	06676 00001 00000 37265	MFSK-16/20Bd	(AB)
XPA2	22-7	0950	13953	Mon	06676 00001 00000 37265	MFSK-16/20Bd	(AB)
XPA2	22-7	1500	13954	Mon	04588 00001 00000 37664	MFSK-16/20Bd	(AB)
XPA2	22-7	1520	12154	Mon	04588 00001 00000 37664	MFSK-16/20Bd	(AB)
XPA2	22-7	1540	11454	Mon	04588 00001 00000 37664	MFSK-16/20Bd	(AB)
XPA2	23-7	0500	10243	Tue	07379 00001 00000 37266	MFSK-16/20Bd	(AB)
XPA2	23-7	0520	11143	Tue	07379 00001 00000 37266	MFSK-16/20Bd	(AB)
XPA2	23-7	0540	12143	Tue	07379 00001 00000 37266	MFSK-16/20Bd	(AB)
XPA2	23-7	0630	18243	Tue	09256 00001 00000 35166	MFSK-16/20Bd	(AB-RUS)
XPA2	23-7	0650	19643	Tue	09256 00001 00000 35166	MFSK-16/20Bd	(AB)
XPA2	23-7	0710	20743	Tue	09256 00001 00000 35166	MFSK-16/20Bd	(AB)
XPA2	23-7	1100	14958	Tue	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)
XPA2	23-7	1120	13958	Tue	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)
XPA2	23-7	1140	12158	Tue	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)

XPA2	23-7	1600	13538	Tue	04330 00001 00000 32657	MFSK-16/20Bd	(AB)
XPA2	23-7	1620	14438	Tue	04330 00001 00000 32657	MFSK-16/20Bd	(AB)
XPA2	23-7	1640	14938	Tue	04330 00001 00000 32657	MFSK-16/20Bd	(AB)
XPA2	24-7	0700	12148	Wed	03032 00130 08806 ... 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	24-7	0720	13448	Wed	03032 00130 08806 ... 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	24-7	0740	13948	Wed	03032 00130 08806 ... 20337 88165 57742	MFSK-16/20Bd	(AB)
XPA2	24-7	0910	16296	Wed	06180 00001 00000 31666	MFSK-16/20Bd	(AB)
XPA2	24-7	0930	14981	Wed	06180 00001 00000 31666	MFSK-16/20Bd	(AB)
XPA2	24-7	0950	13953	Wed	06180 00001 00000 31666	MFSK-16/20Bd	(AB)
XPA2	24-7	1100	17435	Wed	06805 00185 77786 ... 96121 27118 53113	MFSK-16/32Bd	(AB)
XPA2	24-7	1120	16235	Wed	06805 00185 77786 ... 96121 27118 53113	MFSK-16/32Bd	(AB)
XPA2	24-7	1140	14935	Wed	06805 00185 77786 ... 96121 27118 53113	MFSK-16/32Bd	(AB)
XPA2	24-7	1800	17474	Wed	00407 00098 17691 ... 00979 98284 56542	MFSK-16/32Bd	(AB)
XPA2	24-7	1820	16274	Wed	00407 00098 17691 ... 00979 98284 56542	MFSK-16/32Bd	(AB)
XPA2	24-7	1840	14574	Wed	00407 00098 17691 ... 00979 98284 56542	MFSK-16/32Bd	(AB)
XPA2	25-7	0500	10243	Thu	03874 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	25-7	0520	11143	Thu	03874 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	25-7	0540	12143	Thu	03874 00001 00000 37262	MFSK-16/20Bd	(AB)
XPA2	25-7	0630	18243	Thu	01917 00001 00000 41252	MFSK-16/20Bd	(AB)
XPA2	25-7	0650	19643	Thu	01917 00001 00000 41252	MFSK-16/20Bd	(AB)
XPA2	25-7	0710	20743	Thu	01917 00001 00000 41252	MFSK-16/20Bd	(AB)
XPA2	25-7	0910	13445	Thu	07024 00001 00000 33261	MFSK-16/32Bd	(AB)
XPA2	25-7	0930	12145	Thu	07024 00001 00000 33261	MFSK-16/32Bd	(AB)
XPA2	25-7	0950	11545	Thu	07024 00001 00000 33261	MFSK-16/32Bd	(AB)
XPA2	25-7	1100	17435	Thu	06805 00185 77786 ... 96121 27118 53113	MFSK-16/32Bd	(AB)
XPA2	25-7	1120	16235	Thu	06805 00185 77786 ... 96121 27118 53113	MFSK-16/32Bd	(AB)
XPA2	25-7	1140	14935	Thu	06805 00185 77786 ... 96121 27118 53113	MFSK-16/32Bd	(AB)
XPA2	25-7	1600	13538	Thu	05988 00001 00000 41665	MFSK-16/20Bd	(AB)
XPA2	25-7	1620	14438	Thu	05988 00001 00000 41665	MFSK-16/20Bd	(AB)
XPA2	25-7	1640	14938	Thu	05988 00001 00000 41665	MFSK-16/20Bd	(AB)
XPA2	26-7	1100	14958	Fri	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)
XPA2	26-7	1120	13958	Fri	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)
XPA2	26-7	1140	12158	Fri	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)
XPA2	26-7	1800	17474	Fri	00407 00098 17691 ... 00979 98284 56542	MFSK-16/32Bd	(AB)
XPA2	26-7	1820	16274	Fri	00407 00098 17691 ... 00979 98284 56542	MFSK-16/32Bd	(AB)
XPA2	26-7	1840	14574	Fri	00407 00098 17691 ... 00979 98284 56542	MFSK-16/32Bd	(AB)
XPA2	27-7	0910	13445	Sat	06936 00001 00000 40661	MFSK-16/32Bd	(AB)
XPA2	27-7	0930	12145	Sat	06936 00001 00000 40661	MFSK-16/32Bd	(AB)
XPA2	27-7	0950	11545	Sat	06936 00001 00000 40661	MFSK-16/32Bd	(AB)
XPA2	27-7	1500	13954	Sat	01618 00001 00000 40252	MFSK-16/20Bd	(AB)
XPA2	27-7	1520	12154	Sat	01618 00001 00000 40252	MFSK-16/20Bd	(AB)
XPA2	27-7	1540	11454	Sat	01618 00001 00000 40252	MFSK-16/20Bd	(AB)

XPA2	29-7	0700	12148	Mon	05154 00001 00000 33662	MFSK-16/20Bd	(AB)
XPA2	29-7	0720	13448	Mon	05154 00001 00000 33662	MFSK-16/20Bd	(AB)
XPA2	29-7	0740	13948	Mon	05154 00001 00000 33662	MFSK-16/20Bd	(AB)
XPA2	29-7	0910	16296	Mon	00592 00189 41662 ... 81750 65441 01412	MFSK-16/20Bd	(AB)
XPA2	29-7	0930	14981	Mon	00592 00189 41662 ... 81750 65441 01412	MFSK-16/20Bd	(AB)
XPA2	29-7	0950	13953	Mon	00592 00189 41662 ... 81750 65441 01412	MFSK-16/20Bd	(AB)
XPA2	29-7	1500	13954	Mon	09113 00233 97452 ... 56293 70402 41707	MFSK-16/20Bd	(AB)
XPA2	29-7	1520	12154	Mon	09113 00233 97452 ... 56293 70402 41707	MFSK-16/20Bd	(AB)
XPA2	29-7	1540	11454	Mon	09113 00233 97452 ... 56293 70402 41707	MFSK-16/20Bd	(AB)
XPA2	30-7	0500	10243	Tue	04098 00120 30322 ... 09248 90064 32565	MFSK-16/20Bd	(AB)
XPA2	30-7	0520	11143	Tue	04098 00120 30322 ... 09248 90064 32565	MFSK-16/20Bd	(AB)
XPA2	30-7	0540	12143	Tue	04098 00120 30322 ... 09248 90064 32565	MFSK-16/20Bd	(AB)
XPA2	30-7	0630	18243	Tue	03886 00001 00000 40263	MFSK-16/20Bd	(AB-CYP)
XPA2	30-7	0650	19643	Tue	03886 00001 00000 40263	MFSK-16/20Bd	(AB)
XPA2	30-7	0710	20743	Tue	03886 00001 00000 40263	MFSK-16/20Bd	(AB)
XPA2	30-7	1100	14958	Tue	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)
XPA2	30-7	1120	13958	Tue	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)
XPA2	30-7	1140	12158	Tue	00399 00161 01680 ... 74210 96898 10334	MFSK-16/20Bd	(AB)
XPA2	30-7	1600	13538	Tue	00310 00209 01717 ... 42970 59595 01162	MFSK-16/20Bd	(AB)
XPA2	30-7	1620	14438	Tue	00310 00209 01717 ... 42970 59595 01162	MFSK-16/20Bd	(AB)
XPA2	30-7	1640	14938	Tue	00310 00209 01717 ... 42970 59595 01162	MFSK-16/20Bd	(AB)
XPA2	31-7	0700	12148	Wed	09048 00001 00000 35265	MFSK-16/20Bd	(AB)
XPA2	31-7	0720	13448	Wed	09048 00001 00000 35265	MFSK-16/20Bd	(AB)
XPA2	31-7	0740	13948	Wed	09048 00001 00000 35265	MFSK-16/20Bd	(AB)
XPA2	31-7	0910	16296	Wed	00592 00189 41662 ... 81750 65441 01412	MFSK-16/20Bd	(AB)
XPA2	31-7	0930	14981	Wed	00592 00189 41662 ... 81750 65441 01412	MFSK-16/20Bd	(AB)
XPA2	31-7	0950	13953	Wed	00592 00189 41662 ... 81750 65441 01412	MFSK-16/20Bd	(AB)
XPA2	31-7	1100	17435	Wed	03322 00086 87305 ... 27490 57660 54222	MFSK-16/32Bd	(AB)
XPA2	31-7	1120	16235	Wed	03322 00086 87305 ... 27490 57660 54222	MFSK-16/32Bd	(AB)
XPA2	31-7	1140	14935	Wed	03322 00086 87305 ... 27490 57660 54222	MFSK-16/32Bd	(AB)
XPA2	31-7	1800	17474	Wed	00330 00112 01144 ... 49798 20739 42263	MFSK-16/32Bd	(AB)
XPA2	31-7	1820	16274	Wed	00330 00112 01144 ... 49798 20739 42263	MFSK-16/32Bd	(AB)
XPA2	31-7	1840	14574	Wed	00330 00112 01144 ... 49798 20739 42263	MFSK-16/32Bd	(AB)
XPB1	1-7	0500	11168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	1-7	0510	11468	Mon	Russian intel.	MFSK-16	(AB)
XPB1	1-7	0520	12168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	1-7	0530	13368	Mon	Russian intel.	MFSK-16	(AB)
XPB1	1-7	0540	13969	Mon	Russian intel.	MFSK-16	(AB)
XPB1	1-7	0550	14569	Mon	Russian intel.	MFSK-16	(AB)
XPB1	2-7	0500	11168	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-7	0500	11168	Tue	MFSK-16 4:30 (hfd)	MFSK-16	(HFD)
XPB1	2-7	0510	11468	Tue	Russian intel.	MFSK-16	(AB/HFD)

XPB1	2-7	0510	11468	Tue	MFSK-16 (hfd)	MFSK-16	(HFD)
XPB1	2-7	0520	12168	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-7	0520	12168	Tue	MFSK-16 (hfd)	MFSK-16	(HFD)
XPB1	2-7	0530	13368	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-7	0530	13368	Tue	MFSK-16 (hfd)	MFSK-16	(HFD)
XPB1	2-7	0540	13969	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-7	0540	13968	Tue	MFSK-16 (hfd)	MFSK-16	(HFD)
XPB1	2-7	0550	14569	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-7	0550	14568	Tue	MFSK-16 (hfd)	MFSK-16	(HFD)
XPB1	2-7	1300	20024	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-7	1310	19224	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-7	1320	18324	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-7	1330	17424	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-7	1340	16324	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-7	1350	15824	Tue	Russian intel.	MFSK-16	(AB)
XPB1	3-7	1100	13884	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-7	1110	13384	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-7	1120	12184	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-7	1130	11584	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-7	1140	11084	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	3-7	1150	10584	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-7	1300	20024	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-7	1310	19224	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-7	1320	18324	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-7	1330	17424	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-7	1340	16324	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-7	1350	15824	Fri	Russian intel.	MFSK-16	(AB)
XPB1	6-7	1100	13884	Sat	Russian intel.	MFSK-16	(AB)
XPB1	6-7	1110	13384	Sat	Russian intel.	MFSK-16	(AB)
XPB1	6-7	1120	12184	Sat	Russian intel.	MFSK-16	(AB)
XPB1	6-7	1130	11584	Sat	Russian intel.	MFSK-16	(AB)
XPB1	6-7	1140	11084	Sat	Russian intel.	MFSK-16	(AB)
XPB1	6-7	1150	10584	Sat	Russian intel.	MFSK-16	(AB)
XPB1	8-7	0500	11168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-7	0510	11468	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-7	0520	12168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-7	0530	13368	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-7	0540	13969	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-7	0550	14569	Mon	Russian intel.	MFSK-16	(AB)
XPB1	9-7	0500	11168	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	0510	11468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	0520	12168	Tue	Russian intel.	MFSK-16	(AB)

XPB1	9-7	0530	13368	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	0540	13969	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	0550	14569	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	1300	20024	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	1310	19224	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	1320	18324	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	1330	17424	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	1340	16324	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-7	1350	15824	Tue	Russian intel.	MFSK-16	(AB)
XPB1	10-7	1100	13884	Wed	Russian intel.	MFSK-16	(AB)
XPB1	10-7	1110	13384	Wed	Russian intel.	MFSK-16	(AB)
XPB1	10-7	1120	12184	Wed	Russian intel.	MFSK-16	(AB)
XPB1	10-7	1130	11584	Wed	Russian intel.	MFSK-16	(AB)
XPB1	10-7	1140	11084	Wed	Russian intel.	MFSK-16	(AB)
XPB1	10-7	1150	10584	Wed	Russian intel.	MFSK-16	(AB)
XPB1	12-7	1300	20024	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-7	1310	19224	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-7	1320	18324	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-7	1330	17424	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-7	1340	16324	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-7	1350	15824	Fri	Russian intel.	MFSK-16	(AB)
XPB1	13-7	1100	13884	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13-7	1110	13384	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13-7	1120	12184	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13-7	1130	11584	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13-7	1140	11084	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13-7	1150	10584	Sat	Russian intel.	MFSK-16	(AB)
XPB1	15-7	0500	11168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	15-7	0510	11468	Mon	Russian intel.	MFSK-16	(AB)
XPB1	15-7	0520	12168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	15-7	0530	13368	Mon	Russian intel.	MFSK-16	(AB)
XPB1	15-7	0540	13969	Mon	Russian intel.	MFSK-16	(AB)
XPB1	15-7	0550	14569	Mon	Russian intel.	MFSK-16	(AB)
XPB1	16-7	0500	11168	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-7	0510	11468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-7	0520	12168	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-7	0530	13368	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-7	0540	13969	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-7	0550	14569	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-7	1300	20024	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	16-7	1310	19224	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	16-7	1320	18324	Tue	Russian intel.	MFSK-16	(AB/HFD)

XPB1	16-7	1330	17424	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	16-7	1340	16324	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	16-7	1350	15824	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	17-7	1100	13884	Wed	Russian intel.	MFSK-16	(AB)
XPB1	17-7	1110	13384	Wed	Russian intel.	MFSK-16	(AB)
XPB1	17-7	1120	12184	Wed	Russian intel.	MFSK-16	(AB)
XPB1	17-7	1130	11584	Wed	Russian intel.	MFSK-16	(AB)
XPB1	17-7	1140	11084	Wed	Russian intel.	MFSK-16	(AB)
XPB1	17-7	1150	10584	Wed	Russian intel.	MFSK-16	(AB)
XPB1	19-7	1300	20024	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-7	1310	19224	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-7	1320	18324	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-7	1330	17424	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-7	1340	16324	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-7	1350	15824	Fri	Russian intel.	MFSK-16	(AB)
XPB1	20-7	1100	13884	Sat	Russian intel.	MFSK-16	(AB)
XPB1	20-7	1110	13384	Sat	Russian intel.	MFSK-16	(AB)
XPB1	20-7	1120	12184	Sat	Russian intel.	MFSK-16	(AB)
XPB1	20-7	1130	11584	Sat	Russian intel.	MFSK-16	(AB)
XPB1	20-7	1140	11084	Sat	Russian intel.	MFSK-16	(AB)
XPB1	20-7	1150	10584	Sat	Russian intel.	MFSK-16	(AB)
XPB1	22-7	0500	11168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-7	0510	11468	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-7	0520	12168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-7	0530	13368	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-7	0540	13969	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-7	0550	14569	Mon	Russian intel.	MFSK-16	(AB)
XPB1	23-7	0500	11168	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	0510	11468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	0520	12168	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	0530	13368	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	0540	13969	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	0550	14569	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	1300	20024	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	1310	19224	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	1320	18324	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	1330	17424	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	1340	16324	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-7	1350	15824	Tue	Russian intel.	MFSK-16	(AB)
XPB1	24-7	1100	13884	Wed	Russian intel.	MFSK-16	(AB)
XPB1	24-7	1110	13384	Wed	Russian intel.	MFSK-16	(AB)
XPB1	24-7	1120	12184	Wed	Russian intel.	MFSK-16	(AB)

XPB1	24-7	1130	11584	Wed	Russian intel.	MFSK-16	(AB)
XPB1	24-7	1140	11084	Wed	Russian intel.	MFSK-16	(AB)
XPB1	24-7	1150	10584	Wed	Russian intel.	MFSK-16	(AB)
XPB1	26-7	1300	20024	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-7	1310	19224	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-7	1320	18324	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-7	1330	17424	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-7	1340	16324	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-7	1350	15824	Fri	Russian intel.	MFSK-16	(AB)
XPB1	27-7	1100	13884	Sat	Russian intel.	MFSK-16	(AB)
XPB1	27-7	1110	13384	Sat	Russian intel.	MFSK-16	(AB)
XPB1	27-7	1120	12184	Sat	Russian intel.	MFSK-16	(AB)
XPB1	27-7	1130	11584	Sat	Russian intel.	MFSK-16	(AB)
XPB1	27-7	1140	11084	Sat	Russian intel.	MFSK-16	(AB)
XPB1	27-7	1150	10584	Sat	Russian intel.	MFSK-16	(AB)
XPB1	29-7	0500	11168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-7	0510	11468	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-7	0520	12168	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-7	0530	13368	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-7	0540	13969	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-7	0550	14569	Mon	Russian intel.	MFSK-16	(AB)
XPB1	30-7	0500	11168	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	0510	11468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	0520	12168	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	0530	13368	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	0540	13969	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	0550	14569	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	1300	20024	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	1310	19224	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	1320	18324	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	1330	17424	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	1340	16324	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-7	1350	15824	Tue	Russian intel.	MFSK-16	(AB)
XPB1	31-7	1100	13884	Wed	Russian intel.	MFSK-16	(AB)
XPB1	31-7	1110	13384	Wed	Russian intel.	MFSK-16	(AB)
XPB1	31-7	1120	12184	Wed	Russian intel.	MFSK-16	(AB)
XPB1	31-7	1130	11584	Wed	Russian intel.	MFSK-16	(AB)
XPB1	31-7	1140	11084	Wed	Russian intel.	MFSK-16	(AB)
XPB1	31-7	1150	10584	Wed	Russian intel.	MFSK-16	(AB)

APPENDIX

Designators of active stations

Prefixes

E English language
F FSK (Frequency Shift Keying) modes
G German language
HM Hybrid modes
M(C) Morse code (Chinese)
P PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes
Q 4+4 QPSK mode
S Slavic languages
SK Various modes used by Cuba, incl. (B)PSK, WinDRM
UM(C) Unid Morse station (Chinese)
V Voice broadcasts in other languages
VC Voice Chinese
XP MFSK (polytone) modes

Active voice stations

Code	Language	Origin	Related stations
E06	English	Russia	E06, S06, M14, F01, F06, F06a
E07	English	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1
E11	English	Poland	E11, E11a, S11a, F03, P03
E11a	English	Poland	E11, E11a, S11a, F03, P03
S06	Russian	Russia	E06, S06, M14, F01, F06, F06a
S06b	Russian	Russia	E06, S06, M14, F01, F06, F06a
S06c	Russian	Russian	E06, S06, M14, F01, F06, F06a
S11a	Russian	Poland	E11, E11a, S11a, F03, P03
S25	Russian	Russia	
V07	Spanish	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1
V07F	French	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1
V13	Mandarin	Taiwan	
V26	Chinese	China	M95, Q26, V26
V28	Korean	North Korea	
VC01	Chinese	China	VC03, MC03
VC03	Chinese	China	VC01, MC03

Active morse stations

Code	Mode	Origin	Related stations
M01	Morse	Russia	M01a
M01a	Morse	Russia	M01
M12	Morse	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1
M14	Morse	Russia	E06, S06, M14, F01, F06, F06a
M14d	Morse	Russia	E06, S06, M14, F01, F06, F06a
M21	Morse	Russia	M41
M22	Morse	Israel	
M23	Morse	France	
M41	Morse	Russia	M21
M51a	Morse	France	M51b
M51b	Morse	France	M51a
M76	Morse	?	
M89	Morse	China	
M95	Morse	China	M95, Q26, V26
MC03	Morse	China	VC01, VC03
UM03	Morse	China	
UM04	Morse	Bulgaria	PROMRCh daily schedule
UM05	Morse	France	Morse training. 24/7 operation
UM06	Morse	France?	Various formats. Often 5-letter strings separated by a 5-digit group
UM10	Morse	?	ID repeated for 10 minutes on two parallel frequencies. Messages are rare

Active digital stations

Code	Mode	Origin	Related stations
F01	FSK	Russia	E06, S06, M14, F01, F06, F06a
F02	FTM-4 (FSK-4/150Bd/4000Hz)	Russia	
F03	2FSK, 4FSK	Poland	E11, E11a, S11a, P03
F06	FSK	Russia	E06, S06, M14, F01, F06, F06a
F06a	FSK	Russia	E06, S06, M14, F01, F06, F06a
F07	5 x 16-tone MFSK, 10 Bd, 20 Hz + BPSK, 250 Bd	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1
HM01	Voice + WinDRM	Cuba	
M42	Various modes	Russia	
P03	BPSK, QPSK	Poland	E11, E11a, S11a, F03
P07	8-tone OFDM, QSPK, 62.5 Bd, 125 Hz + BPSK, 250 Bd bursts	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1
Q26	4+4 QPSK 75/3000 LSB or 4+4 QPSK 75/1000 LSB	China	M95, Q26, V26
X06	MFSK-6	Russia	Several variants X06a, X06b, X06c, X06d
XPA1	MFSK-20	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1
XPA2	MFSK-16	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1
XPB1	MFSK-16	Russia	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1

Figures and words used by the various numbers stations

Cut numbers

Chinese cut numbers (M89, M95, MC03, etc)

A	U	3	4	5	6	7	D	N	T
1	2	3	4	5	6	7	8	9	0

M08a cut numbers

A	N	D	U	W	R	I	G	M	T
1	2	3	4	5	6	7	8	9	0

Q26 conversion

F	J	B	P	G	U	Y	M	C	W
0	1	2	3	4	5	6	7	8	9

Word	E11a	S11a	M03
Attention Slash / Out	Attention Oblique Out	Vnimanye Cirta Konets	— · · — ·

Note: M03 and M08a are defunct.

Figure	English	French	German	Mandarin	Spanish	Russian	Arabic
0	Zero	Zero	Null	Ling	Cero	Null	Sifr
1	One	Un	Eins	Yi	Uno	Odín	Wahid
2	Two	Deux	Zwei	Er	Dos	Dva	Itnien
3	Three	Trois	Drei	San	Tres	Tri	Talata
4	Four	Quatre	Vier	Si	Cuatro	Chety're	Arba`a
5	Five	Cinq	Fünf	Wu	Cinco	Pyat'	Xamsa
6	Six	Six	Sechs	Liu	Seis	Shest'	Sitta
7	Seven	Sept	Sieben	Qi	Siete	Sem'	Sab`a
8	Eight	Huit	Acht	Ba	Ocho	Vósem'	Tamanya
9	Nine	Neuf	Neun	Jiu	Nueve	Dévyat'	Tiss`a

Figure	Morse	Vietnamese	E17z	S11a	G06	E11
0	— — — — —	Số không	Zero	Nul	Null	Zero
1	· — — — —	Môt	Van	Adinka	Eins	One
2	· · — — —	Hai	To	Dwojka	Twso	Two
3	· · · — —	Ba	Fwee	Trojka	Drei	Three
4	· · · · —	Bô'n	Fo	Cienciorka	Vier	Four
5	· · · · ·	Nâm	Fav	Pietiorka	Funuf	Fiver
6	— · · · ·	Sáu	Six	Szest	Sechs	Six
7	— — · · ·	Ba|y	Seven	Siem	Sieben	Seven
8	— — — · ·	Tám	Eight	Wosiem	Acht	Eight
9	— — — — ·	Chín	Nine	Diewiet	Neugen	Niner
=	— · · · —					
/	— · · — ·					

Morse characters

A	. -	1	. - - - -	Full stop (period)	[.]	.–.–.–
B	- . . .	2	. . - - -	Comma	[,]	– – . . – –
C	- . - .	3	. . . - -	Colon	[:]	– – – . . .
D	- . .	4	. . . . -	Question mark	[?]	. . – – . .
E	.	5	. . . . .	Exclamation mark	[!]	–.–.––
F	. . - .	6	-	Apostrophe	[’]	.– – – –.
G	– – .	7	– – . . .	Dash or Hyphen	[–]	–. . . .–
H	. . . .	8	– – – . .	Slash	[/]	–. . –.
I	. .	9	– – – – .	Left-hand bracket	[( ]	–.––.
J	. – – –	0	– – – – –	Right-hand bracket	[ )]	–.––.–
K	–. –			Quotation marks	[“ ”]	.–. .–.
L	. –. .			Equals sign	[BT =]	–. . .–
M	– –	Accented letters		Understood		. . .–.
N	–.	Ä	.–.–	Plus sign	[+]	.–.–.
O	– – –	Á	.– – .–	Invitation to transmit		–.–
P	. – –.	CH	– – – –	Wait	[AS]	.–. . .
Q	– –. –	É	. . –. .	End of Transmission	[SK, VA]	. . .–.–
R	. –.	Ö	– – –.	End of message	[AR]	.–.–.
S	. . .	Ü	. . – –	Starting signal		–.–.–
T	–			Multiplication sign	[×]	–. .–
U	. . –			At sign	[@]	.– –.– .
V	. . . –			Break	[BK]	–. . .–.–
W	. – –			Ampersand	[&]	.–. . .
X	–. . –					
Y	–. – –					
Z	– – . .			See also		
				http://udxf.nl/Morse-document.pdf		
				http://udxf.nl/Russian.pdf		

E11 family digital transmission modes.
Most modes are very much the same and have only very small differences.

FSK transmissions

F03a	FSK-2 100Bd/200Hz cf + 600Hz
F03b	FSK-2 200Bd/400Hz
F03c	FSK-2 400Bd/960Hz/cf +1120Hz/448-bit period
F03d	FSK-2 200Bd/400Hz/cf +600Hz/448-bit period
F03f	FSK-2 400Bd/800Hz/cf +1200Hz/496-bit period
F03g	BPSK 50Bd/1000Hz/464 bits
F03h	BPSK 100Bd/1000Hz/512 bits
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period
F03k	FSK-2 400Bd/800Hz/cf +1200Hz/448-bit period
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period
F11	FSK 100Bd/620Hz and FSK 100Bd/740Hz

PSK transmissions

P03	Undefined PSK
P03a	BPSK 62.5Bd
P03b	QPSK 62.5Bd
P03c	BPSK 125Bd
P03d	QPSK 125Bd/448-bit period
P03e	QPSK 100Bd/488-bit period
P03f	QPSK 200Bd/496-bit period
P03g	BPSK 50Bd/464-bit period
P03h	BPSK 100Bd/512-bit period
P03i	BPSK 62.5Bd/464-bit period
P03j	QPSK 100Bd/504-bit period
P03k	BPSK 100Bd/480-bit period
P03l	QPSK 100Bd/464-bit period

Notes:
- Bit Period is the time needed to transmit one bit
- Defunct modes F03a, F03b, F11, P03a, P03b, P03c

COLOPHON

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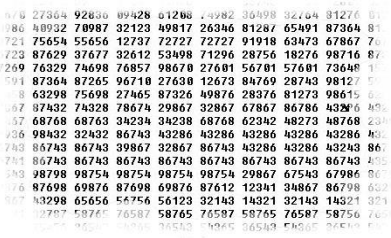

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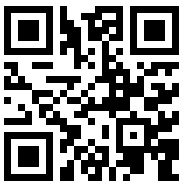

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